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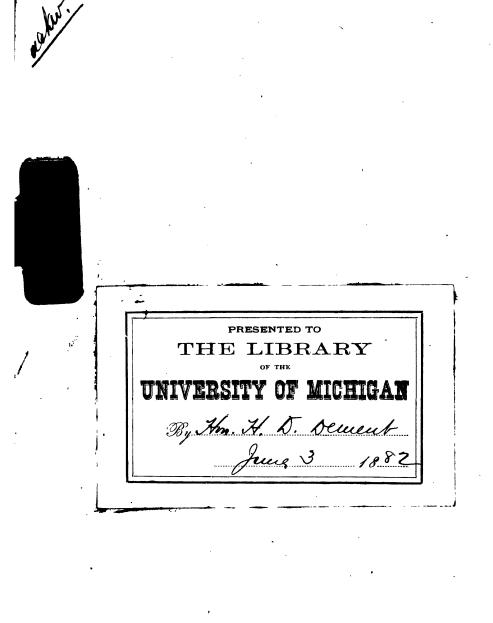
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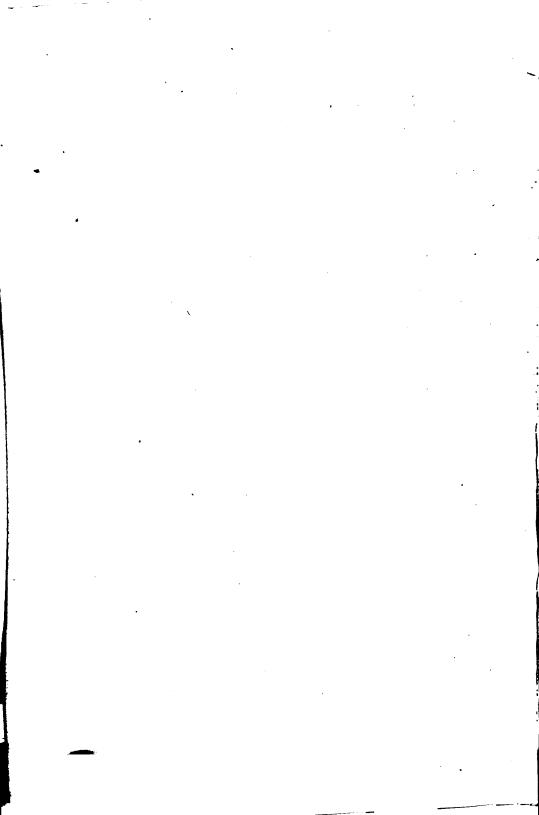
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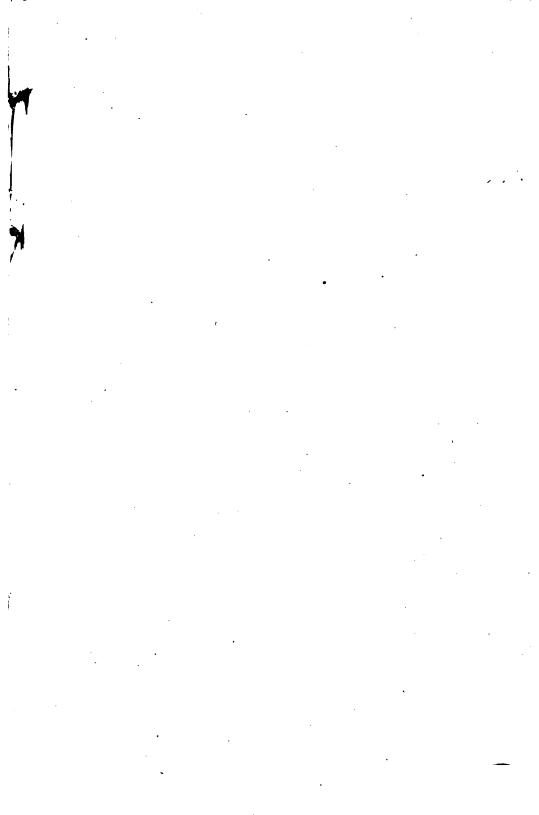
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19003

FIRST BIENNIAL REPORT

OF THE

BUBEAU OF LABOR STATISTICS

OF ILLINOIS.



For the Years Ending January 12, 1881.

SPRINGFIELD, ILL.: II. W. ROKKER, STATE PRINTER AND BINDER. 1881.



THE COMMISSION.

C. H. DEERE, MOLINE, President.
A. W. KINGLAND, CHICAGO.
JOSEPH C. SNOW, CHICAGO.
GEORGE T. BROWN, SPRINGFIELD.
THOMAS LLOYD, RENTCHLER.
F. H. B. MCDOWELL, CHICAGO, Secretary.

. . ı STATE OF ILLINOIS,
OFFICE OF THE BUREAU OF LABOR STATISTICS,
SPRINGFIELD, January 12, 1881.

To his Excellency, Shelby M. Cullom, Governor of the State of Illinois:

DEAR SIR: In compliance with the act of the Thirty-first General Assembly creating this bureau, we herewith submit to you, for transmission to the Thirty-second General Assembly, the first

biennial report authorized by said act.

Trusting that it may meet your approbation, and result in paving the way to such legislative action as will tend to the permanent prosperity of the mechanical, manufacturing and productive industries of the State, and to encourage thrift, independence and intelligence among the toiling masses of Illinois, we remain,

Respectfully yours,

C. H. DEERE, President, JOSEPH H. SNOW, A. W. KINGSLAND, THOMAS LLOYD, GEORGE T. BROWN,

F. H. B. McDowell, Secretary.

Commissioners.

. . . • . . ! .

INTRODUCTORY.

The changes wrought in the commercial, manufacturing and social condition of Illinois during the past two decades has demonstrated the legislative necessity of keeping pace with the ever-varying phases of life which the increase of population has wrought, as well as the solution of the problem which wealth and pauperism—increasing in a greater or less ratio as they are treated with intelligence or ignorance—demand from the representatives of a people who can do much to eradicate crime and inhumanity by wise and just legislation. We do not hold to the idea that all wrongs can be righted by law-making, neither do we maintain that it is the duty of the law-makers of our State to attempt to pass upon the vagaries or whims of every agitator who may come to the surface with his panacea for industrial wrong in "A bill for an act," but it is certainly the part of good statesmanship and sound judgment to so arrange matters which lie within the province of the General Assembly that the scales of justice, when applied to questions which affect the life, health, morals and prosperity of the working people of the State, may hang in even balance. That the contrary of the latter proposition, in many cases, is true, is too plainly evident to your Commissioners to require any lengthy argument. The causes vary as applied to different industries, but are plainly traceable to the cupidity and heartlessness of employers in the industries where such wrongs exist, and are oftentimes prompted by revenge for strikes and agitation to obtain higher rates of wages by employes, as well as being the result of a "competition," as suicidal in a business sense as it is debasing in its social results.

THE GROWTH OF MANUFACTURES IN THE STATE.

The period embraced between the early settlement of Illinois and the year 1850 was noticeable for little more than agricultural production and the development of that form of the resources of the State. True, there had been a small moiety of coal mined for the use of the few manufactories and the river steamers of the Ohio and Mississippi, which could use it, and the lead mines of the Galena region had attracted some capital and required a small portion of the industry of the State, yet, beyond the few building and manufacturing trades necessary to the simplest wants of the people, we possessed no manufactures worthy of any note. In 1850, out of a

total population of 846,034, but 11,599 persons were employed in purely manufacturing industries. In 1860, with a total population of 1,711,960, we had but 22,968 persons employed in manufacturing. The next ten years showed a wonderful increase in the amount of labor employed in factories, the number having increased to 82,979, while the population of the State had increased to 2,539,891. The increase during the past ten years has been much more rapid, and will probably reach the aggregate of 300,000 persons. The increase for the twenty years, ending with 1870, will be shown by the following table:

Years.	Total populaton.	Number of estab- ments	Number of hands employed	Amount of cap- ital employed	Amount of wages	Value of raw materials used	Value of manufactured products.
1850	846, 034	3, 162	11, 599	\$6, 217, 765	\$3, 204, 336	\$8,559,927	\$16, 534, 272
	1, 711, 960	4, 268	22, 968	27, 548, 663	7, 637, 921	35,558,782	57, 580, 886
	2, 539, 891	12, 597	82, 979	94, 368, 057	31, 100, 244	127,600,077	205, 620, 672

Note—The statistics of mining, quarrying and fishing industries are excluded from the tables of 1870, but are included in those of 1850 and 1860. The value of the coal, lead and building stone products in 1870 was placed at \$6,968,201.

LABOR LEGISLATION.

Beyond the legislation demanded to protect the citizens of the State in their ordinary rights, and to insure to their families protection in the property of their homes against execution for debts, there were no labor laws on the statute books of the State up to the year 1863. At that time it was deemed necessary to pass what has since been known as the "LaSalle Black Laws," which punished, by fine and imprisonment, persons conspiring to influence employés, either by threats or intimidation, to cease work in any manufactory or coal mine in the State. The act was rendered necessary by a series of strikes in the coal mines in and about the city of LaSalle. There have been a number of persons convicted under it, at different times since then, but the law—though remaining on the statute books of the State—is practically a dead letter.

Subsequent legislation by the State to protect workers in particular industries has been had, in the laws protecting employés in coal mines and banks from the carelessness and negligence of operators in the matter of unsafe machinery; and the present mine inspection law, which—were it possible under the circumstances to enforce it—would make a vast improvement in the working condition of the mines of the State, and be of much practical benefit to those of our people who earn their livelihood by working below ground. The act in question will be found in the pages devoted particularly to the mining industries. Outside of the law mentioned above, very little has been done which has had any influence on the condition of the wage-worker.

THE RISE IN WAGES.

The depression in business following the panic of 1878 caused a very serious lowering of wages of the rank and file of those employed in all our industries, and it was not until the past year that any marked improvement had been made. Up to the time when the War of the Rebellion commenced, all classes of labor, while paid as good wages as in other States, did not average above two-thirds the ruling prices of to-day. With the increased cost of living occasioned by the high prices paid for the necessities of life engendered by the war, came a rise in the wages paid; and with the inflated condition of everything to be bought or sold, came the seemingly highest wages ever paid in the history of Illinois.

For the years between 1865 and 1873, wage prices maintained nearly as high a standard as during the war. Then came the reaction, and with it a tumble in the amounts earned by employes in all branches of business. With the depression also came the stoppage of manufactories and the loss of employment by a large number. Gradually prices of all commodities, including labor, reached the lowest ebb since the war, until the change brought about by resumption in 1879 began to give returning confidence to investors in manufactories; since when—taken as a whole—the condition of the labor market in the State has been better than at any time in its history. Yet there are many industries in which the laborers have not had the benefits which the prosperity of the whole State ought to have given them, the causes of which are treated under their several heads hereafter. Some of them can be helped by legislation which will affect the conditions under which the workers suffer, while others can not be influenced by other action than by the laws which govern trade.

THE FORMATION OF THE BUREAU.

The law passed by the Thirty-first General Assembly creating the State Bureau of Labor Statistics was the joint result of agitation on the part of labor societies in the State for protective legislation to different industries, and of the demand from the business interests for a bureau of statistics. The bill for the law under which the State officers and your Commissioners have prosecuted the work laid out in establishing this bureau was a substitute for a more comprehensive bill, and was passed during the closing hours of the session. Outside of the provision for the establishment of the Bureau, it gave the officers no authority to compel the returns of information required to make the Bureau a success. And the appropriation of \$3,000 per year for the years 1879 and 1880 did not suffice to pay the salaries and per diem fixed by law and the expenses incidental to the carrying on of the work of the Bureau.

During the month of August, 1879, Governor Cullom appointed as Commissioners to organize the Bureau and carry out the work expected Charles H. Deere, of Moline; A. W. Kingsland and Joseph C. Snow, of Chicago; Thomas Lloyd, of Rentchler, St. Clair county; and George T. Brown, of Springfield. They met according to law on the first Monday in September, and on the 19th of the month elected F. H. B. McDowell, of Chicago, Secretary. The plan of

the work to be done by the Bureau and the character of the report was discussed; and in obedience to instructions of the Board, the Secretary prepared a series of blanks for the compilation of the statistics desired.

THE PLAN OF WORK.

In order to get the information desired, it was necessary to get in communication with the people. To do this, Circular "A" of the series of blanks prepared was sent to the members of the General Assembly and the county and city clerks throughout the State. The language of the circular was as follows:

STATE OF ILLINOIS, BUREAU OF LABOR STATISTICS. SPRINGFIELD, Oct. 1, 1879.

DEAR SIE—The Thirty-first General Assembly passed an act creating a Bureau of Labor Statistics, which act provided:

"Section 2. (Duties.)—The duties of such board shall be to collect, assort, systematize and present in biennial report to the General Assembly statistical details relating to all departments of labor in the State, especially in its relations to the commercial, industrial, social, educational and sanitary conditions of the laboring classes, and to the permanent prosperity of the mechanical, manufacturing and productive industry of the State."

In order to carry out the provisions of this act, it will be necessary for the bureau to have the names and postoffice addresses of a number of mechanics and laborers in the several counties of the State. You will greatly oblige by sending me, in the enclosed prepaid envelope, on the reverse side of this blank, the names and addresses of a few residents of your township who at the present time are working for wages in the employ of others, the list to include day laborers, railroad employes, apricultural laborers, carpenters, blacksmiths, or employes at other mechanical occupations.

Yours, respectfully, F. H. B. McDowell. Secretary.

In reply to this circular, lists containing upwards of twelve thousand names were forwarded to the Secretary of the bureau, to four thousand of whom, dividing the number among the workers in the various industries, were sent blanks "C" of the series. The form of this circular was as follows, and embraced all the points necessary to base calculations of earnings and expenses of the people upon:

EMPLOYES' TESTIMONY.

[C.-1880,]

STATE OF ILLINOIS, BUREAU OF LABOR STATISTICS, SPRINGFIELD, July 1, 1880.

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DEAR SIR—You are respectfully requested to assist this bureau in making a report, as contemplated by law, by filling up this blank and returning it to this office in the enclosed envelope within thirty days.

The questions to be answered in the blanks are asked in all seriousness, and your careful consideration and conscientious reply are expected. There will be no mention of your name or residence in the report: and the confidence placed in this bureau by its correspondents will not be violated. It is therefore desired that you speak your mind freely; for, by the facts gathered from all parts of the State, and from workers in all our productive industries, something of benefit to the wage-workers of the State must result.

Yours respectfully, F. H. B. McDowell, Secretary.

NOTE - DIRECTIONS FOR FILLING AND RETURNING BLANKS.

- 1. Few of the questions require calculations. They can be answered readily after a careful reading. Therefore we ask you to aid the investigation, and give us necessary time for tabulation by filling and returning the blank immediately.
- 2. If you are unable to answer all, answer those questions which you can. No answers will be lost, but will all be used in considering the questions to which they apply.
- 3. If you can not, or do not wish to answer any of the questions, you will oblige us by returning the circular, so that we may know you can not or do not wish to reply.
- 4. Extended answers to any questions are solicited, and may be written upon the page headed Remarks, or upon extra sheets, if necessary.

TESTIMONY OF EMPLOYES.

	•	
1.	a.	Occupation
	ъ.	How long have you been engaged in your present occupation?
	c.	How long by your present employer.
2.	a.	How many hours a day do you work?
	ь.	How many hours do you work on Saturday?
	c.	Do you consider yourself overworked?
	d.	What reduction in daily working-time, if any, do you think should be made in your business
	e.	Would you be willing to accept, or could you arrange your income and expenses so as to accept a proportionate decrease in your wages if your hours of work were reduced?
3.	a.	Is your business dangerous or unhealthy?
	b.	If so, in what respects?
4.	a.	How many days have you lost by sickness during the year ending September 1, 1879?
	ъ.	What has been the combined outlay and loss of pay, on account of sickness, in your whole family, during the year ending September 1, 1879?
5.	a.	How many days have you been unemployed in your regular business, not including sickness and voluntary absence, during the year ending September 1, 1879?
	b.	Allowing for such other work as you may have been engaged in, what has been your money loss in wages for the time unemployed?
6.	a.	State number in family: Adults
	b.	Wages for year for adults other than yourself? Wages for year of young persons? Total earnings of family for year?
	c.	If possible, give actual (if not give estimated) expenses for year ending Jan. 1, 1880,
		as follows:
		Rent, \$
		Groceries.
		Meats, vegetables and fruit.
		Clothing and dry goods,
		Clothing and dry goods, Education, including newspapers, Tobacco and liquors,
		Tobacco and liquors,
		Sickness,
		All other expenses,
		Total expenses for year, \$
7.	a.	Have your earnings for five years covered your expenses?
	b.	Do you live as well as you did five years ago?
	c.	If not, in what respects are you worse off now than then?
	d.	Have you been obliged to reduce your outlay for rent. food, clothing and other necessities, or have you only been forced to deprive yourself of what might properly be called "extras," or "luxuries?"

8.	a.	equitably for your labor than now?
	ь.	In what way, if any, do you consider your employer unfairly profits by your labor?
	<i>c</i> .	Do you consider yourself underpaid? If so, how much?
9.	a.	Have you been obliged to run in debt for the necessities of life during the past year?
	ь.	Are you ever obliged to take merchandise in payment for wages due you?
	c.	Do you take such goods at cost prices, a little above, or much above the market rates?
10.	a.	At what intervals are you paid (weekly, fortnightly or monthly)?
	ь.	Could you buy cheaper if paid oftener?
	c.	During the past five years, how much wages legally due you have you been unable to collect from employers?
11.	a.	How many children have you between the ages of 6 and 16 years?
	b.	Are they receiving a proper education to enable them to earn their own living?
	c.	Have you decided upon their future employment?
	d.	Is it the same business as your own?
	е.	How many children attend school?
	f.	Are there any of your children who do not attend school because you cannot spare their time, or buy them books?
		If so, how many?
12.	a.	Do you own the house you occupy?
	b.	If not occupying a whole house, give number of rooms you occupy?
	c.	Is your home as comfortable as you would wish?
13.	a.	Are your future prospects good? In other words, will you be able to comfortably support yourself and family until your children arrive at the proper age to look out for themselves, wholly or in part?
	b.	Do you anticipate being able to lay by enough to support you in your old age—say after 65?
14,	a.	Has new machinery been introduced in your trade within the last five years?
	b.	If so, has it caused less workmen to be employed?
	c.	Has it caused a reduction of wages?
15.	a.	Are you a member of any coöperative association, either manufacturing or distributive?
	ь.	If so, state its character, length of time organized, and name and address?
	c.	Give names and addresses of any cooperative stores or organizations in your vicinity?
		•
16.	a.	Do you belong to a trades union or other workingmen's association?
	ь.	Have you been engaged in a strike within five years? If so, give (1) cause (2) duration ; (3) date (4) result.
	c.	Do you own any share or stock in the establishment in which you are employed?

- d. What proportion of apprentices to journeymen are employed in your trade in your town?
- e. Do you think that the interests of your trade would be fostered or better workmen produced by a more strict apprenticeship system?.....
- f. Suggest any legislative measures which you think would be a benefit to the apprenticeship system of your craft, or your craft at large.
- g. Are you in favor of arbitration as a means of settling differences between employers and employes; and would you favor legislation looking thereto?
- h. In your opinion and experience, it it the skilled workmen who are out of employment most, or is it unskilled labor (those without trades)?.....
- 17. a. As a rule, have the wage-laborers of your acquaintance kept clear of debt during the past five years?
 - b. Do you know of any wage-laborers in your trade who have acquired a competence from savings out of their individual earnings?.....

REMARKS.

The replies to the inquiries propounded have been as varied as the circumstances and intelligence of the writers permitted. About one-third of the blanks sent out were returned, and of those but about one-half could be utilized in preparing tables of earnings, cost of living, expenses, etc. These matters are treated of further along under their appropriate headings.

At the same time that the blanks were sent out for the names of employes, similar blanks were sent out to county and city clerks, calling for lists of individuals, firms and corporations doing a manufacturing business in the different cities and counties of the State, with the character of their business. The matter contained in the blank was the following:

ank was the following.

[B—1879.]

To the Clerk of......County:

 $\begin{tabular}{ll} \textbf{Dear Sir:--The Thirty-first General Assembly passed an act creating a Bureau of Labor Statistics, which act provided: \\ \end{tabular}$

"Section 2. [Duties.]—The duties of such board shall be to collect, assort, systematize and present in biennial report to the General Assembly, statistical details relating to all departments of labor in the State, especially in its relations to the commercial, industrial, social, educational and sanitary conditions of the laboring classes, and to the permanent prosperity of the mechanical, manufacturing and productive industry of the State."

The Bureau is now collecting statistics as provided in the foregoing section of the law, and the enclosed blank is mailed you to secure the facts and figures relating to the manufacturing interests of your county. It is necessary that we should have the names and addresses of every manufacturer employing any material amount of help in every county in the State; and we have taken this means as the most feasible under the present circumstances of the Bureau to ask you to aid us in getting them. Such assistance on your part will be purely voluntary, and it may necessarily take some time from your clerical force in order to get them from your records; but in doing so, you will materially aid this Bureau, and assist us in our work.

It is not proposed or intended to make public the names of either employers or employes furnishing information to this Bureau, but as far as possible to collate and systematize the returns made, so that the average condition of the industries of the State, and those actively engaged therein, may be set forth. The value of such statistics must be apparent, as their publication and distribution among the industrial classes will give that knowledge which is indispensable to the securing of peace to the several industries of the State, and will be valuable in determining what, within the province of legislation, can be done to advance our industrial prosperity.

Respectfully yours,

F. H. B. McDowell,

Secretary.

Nearly four thousand names were returned to the Bureau, and a corresponding number of blanks of form J, entitled "Manufacturers' Returns," were sent out. The object expected to be gained from the information asked for in this circular was to compile tables of wages from employers' returns. The answers are treated of under the head "Employers' Returns," further on in this report. The style of the blank is as follows:

MANUFACTURERS' RETURNS.

[J.—1880.]

STATE OF ILLINOIS, BUREAU OF LABOR STATISTICS. SPRINGFIELD, March 2, 1880.

DEAR SIR:-The act creating the Bureau of Labor Statistics provides that:

"Section 2. [Duttes.]—The duties of such board shall be to collect, assort, systematize and present in biennial report to the General Assembly, statistical details relating to all departments of labor in the State, especially in relation to the commercial, industrial, social, educational and sanitary conditions of the laboring classes, and to the permanent prosperity of the mechanical, manufacturing and productive industry of the State."

You are respectfully requested to assist this Bureau in making a report as contemplated by law, by filling up this blank and returning it to this office in the enclosed envelope within thirty days.

The questions to be answered in the blanks are asked in all seriousness, and your careful consideration and conscientious reply are expected. There will be no mention of your name or residence in the report; and the confidence placed in this Bureau by its correspondents will not be violated. It is therefore desired that you speak your mind freely.

Yours respectfully,

F. H. B. McDowell,

Secretary.

NOTE-DIRECTIONS FOR FILLING AND RETURNING BLANKS.

- 1. If you are unable to answer all, answer those questions which you can. No answers will be lost; but will be used in considering the questions to which they apply.
- 2. If you can not, or do not wish to answer any of the questions, you will oblige us by returning the circular, so that we may know that you can not or do not wish to reply.
- 3. Extended answers to any question are solicited, and may be written on the page headed REMARKS, or upon extra sheets if necessary.
- Name of firm
 Located in city (or town) of
- 3. Articles manufactured

	Number Employed.		Average Weekly Wages in 1879.		Weeks Employed in 1879.	
	Male.	Female.	Male.	Female.	Male.	Female.
Persons in charge of departments						
Skilled employes under 16 years						
of age						
of age Persons under 16 years of age	· • • • • • • • • • • • • • • • • • • •					
Totals						

6.	Capital invested in business, \$
7.	Total amount of wages paid in 1879, \$
8.	Value of products for fiscal year ending Jan. 1, 1880,
9.	Is employment regular, or are there busy and dull seasons in the year?
10.	If there are dull seasons, do you retain all employes on short time, or keep a few on full time?
11.	Are wages paid weekly or monthly?
12.	Is labor adapted to your business scarce or abundant, at date of return?
13.	What are the prospects of the business for 1880, as compared with 1879?

In addition to the foregoing, the following blanks have been sent out, in the order named:

FORM D-COAL MINE EMPLOYES' RETURN.

1.	Name; Married or single
2.	Postoffice address
3.	Special occupation about mine
4:	Name of employer
5.	Name of mine
6.	Do you work by the day or by the bushel?
7.	Price paid per bushel for mining.
8.	Is the coal mined by you fairly weighed or measured?
9.	Does fire-damp or other mineral gas exist in the mine in which you are employed, and if so, to what extent?
ΙΟ.	Are you paid for the gross amount of coal mined, or the amount which has passed over the screen?
	If paid only for the amount passing over the screen, what is the width of the screen between the bars?
11.	Does the provisions of the new mining law give greater security of life than the previous one, and does the inspector perform his duty effectually?
12.	How often are you paid for work? Which system of payment do you prefer, the weekly or monthly system?
13.	Are you required to take any portion of your pay in store orders or checks for goods?
	If so, what percentage?
	Do you rent from the owner of the pit you work in?
	If so, are you required to pay more than other house-owners demand?
14.	Average earnings or wages for six full days \$
15.	How many weeks were you idle, for want of work, from September 1, 1878, to September 1, 1879?
16.	Give your total earnings, without discount, from September 1, 1878, to September 1, 1879.
17.	Discounts during same period, for oil, powder, tools and tool-sharpening

For Cle Ski Lak Boy Fer	Where located	No. Employed.	e taking wages p	Lowest.	Hours of Labor per Day.	Weeks Employed in past 12 Months.
2. 3. 4. 5. For Cle Ski Lak	Name of proprietor. Where located Business Total number of employes Classify employes as follows, not to incl Employes. Permen Drewomen Female Tilled workmen Lborers unskilled Dys under 16 males (not clerks) over 15	lude thos	e taking v	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4. 5. For Cle Ski Lak	Name of proprietor. Where located Business Total number of employes Classify employes as follows, not to incl Employes. Permen Drewomen Female Tilled workmen Lborers unskilled Dys under 16 males (not clerks) over 15	lude thos	e taking v	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4. 5. For For Cle	Name of proprietor	lude thos	e taking v	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4. 5. For For Cle. Ski	Name of proprietor	lude thos	e taking v	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4. 5. ————————————————————————————————	Name of proprietor. Where located	lude thos	e taking w	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4. 5. ————————————————————————————————	Name of proprietor	lude thos	e taking w	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4. 5.	Name of proprietor	lude thos	e taking w	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4.	Name of proprietor	lude thos	e taking w	er Week.	Hours of Labor	Weeks Employ- ed in past 12
2. 3. 4.	Name of proprietor	lude thos	e taking w	er Week.	Hours of Labor	Weeks Employ- ed in
2. 3. 4.	Name of proprietor		e taking			Weeks
2. 3. 4.	Name of proprietor			work in th	neir home	s—
2. 3. 4.	Name of proprietor					
2.	Name of proprietor	EMALE I	LABOR.			
2.	Name of proprietor	EMALE I	LABOR.			
	Name of proprietor	EMALE I	LABOR.			
1.		EMALE I	LABOR.			
	FORM E-F	EMALE I	LABOR.			
				•		••••••
						• • • • • • • • • • • • • • • • • • • •
	or gold in ball mone or magonition					• • • • • • • • • • • • • • • • • • • •
29 .	Give a list of employers who, within orders, in payment of wages	your kn	owledge,	use chec	ks, scrip	or store
	•••••	• • • • • • • • • •				· · · · · · · · · · · · · · · · · · ·
2 8.	 Were you engaged in any strike during number engaged, cause, and result 	TR OTTE NE	ar: 11 80,	Rive har	ars a	a io dale,
90	:			give new	۰۰۰۰ د tioulara	a to date
27.		d with sa	vings fro	m your i	ndividal e	arnings?
26.	. At the present price for mining, could employment?	you live	as well	as in 1872,	if you ha	ad steady
25 .	. Have your earnings, for five years, cove	ered you	r expense	s?		• • • • • • • • • • • • • • • • • • • •
	Total,					\$
	Tobacco and liquors,					
	Fuel and light,	Edu Siel Rec	ication, b kness, creation, er expen	ooks, etc.		
24.	Rent, taxes or repairs, \$		year end: ots and sh	_		\$:
23.	miners could be employed at		,			
22.	so, give an estimate of their number.	,	• • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •
21.						
20.	. Number in family—Adults,; chi	ildren ov	er 16	: chili	en under	16.
19. 20.	Total				\$.	
		Ear	nings of v nings of c	vife - hildren u	- \$. nder 16	
	Your own earnings \$ Earnings of children over 16	Ear			• • • • • • • • • •	

8.	Average time a female remains	s in your	employ .				-
9.	Do they lose more time throug	h sicknes	s than w	ould the s	ame nun	ber of m	ales?
10.	What are their chances of pror	notion as	compare	d with m	en?		
11.	What chances have women to	go into b	usiness o	n their ov	n accour	nt?	
12.	Is female labor adapted to you	r busines	s scarce	or abunda	nt at this	s time?	
13.	Are wages paid weekly or mon	thly?					
14.	Are wages paid fully in cash?.	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·				
15.	Is there any reason, in your op the same work as men?	inion, wh	y womer	should n	ot receiv	e the sam	e pay for
16.	State the advantages or disadvand in the other trades and	antages professio	of the em	ployment ur experi	of women	n in your demonsti	business,
	FORM	FBUI	LDING	ŤRADES.			
1.	Name of firm or company			·		· · · · · · · · · · · · · · · · · · ·	•••••
2.	Located in city or town of				••••••		
3.	Number of employes at this da ment:	te, averag	ge wages,	hours of	labor, an	d average	employ-
	. Employes.	Number	Married.	Unmar- ried.	Average Daily Wages.	Days Employ- ed in 1879	Hours of Labor per Day.
Car Bri Pla Pa La	one masons. rpenters cklayers sterers inters borers ys or apprentices						
							<u> </u>
	*Clas	ssify any	other em	ployes.			
4.	Is labor adapted to your busine	ess scarc	e or abun	dant at th	nis time?.		· · · · · · · · · · · · · · · ·
5.	Average reduction in wages si			-			
6.	Are wages paid weekly or mon	thly?	• • • • • • • • • • • • • • • • • • • •			•••••	•••••
7.	Are wages paid fully in cash?.		•••••	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • •	· • • • • • • • • • • • • • • • • • • •	
8.	State in general terms the con-	dition of	he buildi	ng trade	in your lo	cality	-
9.	What in your opinion would be of workmen, if the hours of	the resu labor wer	lt to the h e perman	ealth, ha ently red	bits and f uced to e	lnancial o ight per d	ondition lay?
	FOR	м с	ANUFACI	TURES.			
1.	Name of firm or company						
2.	Located in city (or town) of						
3.	Articles manufactured						
4.	Total number of employes at d	ate of ret	urn				
5.	Classification of employes, wit						

		Nu	Number Employed In			Average	_Weeks	
	Employes.	1	878.	1879.	\v	Average Veekly Wages in 1879.	Employed in 1878.	
Ski Un Boj	remen lled workmenskilled workmen ys over 16ys under 16.							
6.	Capital invested in busin	ness, \$			••••			
7.	Total wages paid in 1878,	, \$. .			
8.	Tons of castings made in	ı 1878						
9.	Value of products for fis	cal yea	r ending	July 1, 187	9			
10.	Is employed regular, or	are the	ere busy	and dull s	eason	s in the year?	•••••	
11.	If there are dull seasons full time?	, do yo	u retain	all emplo	es on		or keep a few on	
12.	Are wages paid weekly	or mon	thly?					
13.	Is labor adapted to your	busin	ess scarc	e or abun	dant a	t date of retu	rn?	
14.	How many establishme county in 1879?	nts in	your lir	e of busi	ness	commenced or	erations in your	
15.	How many permanently	cease	d operati	ons in 1879	9?			
16.	What are the prospects	of the l	business	for 1880, as	com	ared with 1879)?	
1.	Name of organization			E ORGAN				
2.	Who are eligible to men							
3.	Date of organization							
4.	Date of incorporation					•	• • • • • • • • • • • • • • • • • • • •	
5.	Number of skilled works						•••••••••	
6.	Number employed at da		-	-		•		
7.	Number unemployed at							
8.	Number of workshops or							
9.	Present average wages				-	=		
10.	Present average wages							
11.	Average wages per day	-						
12.	Number of apprentices i		-	•		· -	•	
13.	Number of skilled works							
14.	Give number of weeks si in 1879, as follows:	killed v	workmen	at your t	rade, i	n your localit	y, were employed	
_	52 We	eks.	39 Week	ss. 26 W	eeks.	13 Weeks and Less.	Total.	
No	. employed						,	

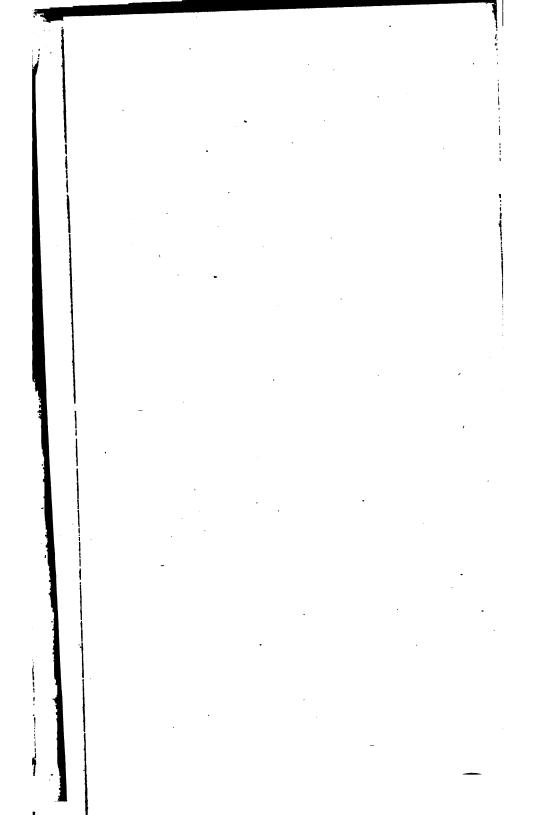
Give membership of ganization in the	f your organ order follow	nization and ring:	of apprentice	s under con	trol of your o
	Marrried.	Unmaried.	Holding Situations.	Substitute Holding no Situations	Total.
Number of members:					
Female Number of apprentices Male					
Female					
le. Was your organizat			es during 1879?	If so, give	particulars
17. Have you a specia	l fund for r		members or	burial of de	ceased mem
18. Give amount of recing July 1. (or 31,		isbursements	of, your orga	nization for	the year end
Gross receipts Running exper Relief Funeral exper Death benefit Strikes	nses -			:	
Balance on h					
Balance on ha 9. What are the prosp	-		 1880 as compar	- ed with 1879?	••••••
20. Recommend, in "re think would be h			this blank, a lar craft or wo	, •	on which your eral.
			TORS RETU.	RNS.	
 Name of mine Name of operator Location of mine In what year was yo 		,			
5. Number of tons of co 6. Price paid per ton fo 7. Average number of c	oal mined in or mining	1879-80, to Ju			
Employ	és.	Aver Num	age Monthly Wages.	Labor	Average Number of Months Employed During Year
finers, by the ton finers, by the week nside laborers fule drivers					
Engineers fechanics Veigh masters Dumpers					
Other employés					 .

- Was there any increase or decrease in the wages paid your employés during the above year? If so, state date and amount

The results of the inquiries by mail, and the requests for voluntary statements to enable the officers of the bureau to make calculations and draw conclusions have not been satisfactory, though the number and the quality of the returns have been better than the average experience of similar bureaus in other States, judging by their reports and the testimony of their officers. And the most singular fact in connection with this portion of the work is that those who have been the loudest in their demands for reform, and in calling for labor legislation, have been the most derelict in furnishing intelligent statements of their wants. The sprinkling of practical measures recommended, however, more than makes amends for the mass of visionary schemes offered to correct wrongs which exist, and shows that there is not only an earnest desire for reform, but a comprehension of the subject which does credit to a State comparatively so young in the manufacturing world.

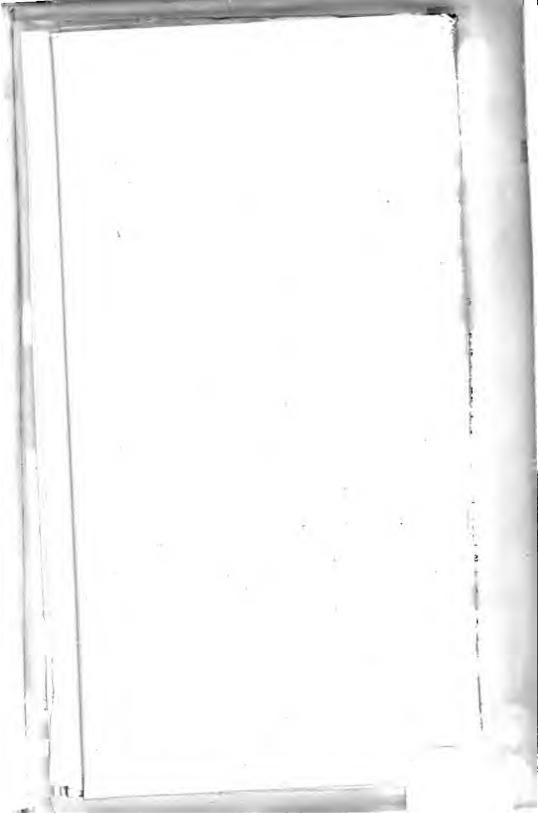
MANUFACTURES PRIOR TO 1880.

The following comparative tables, showing the growth of manufactures in the State, have been compiled from the United States census returns, which contains the only authentic figures extant. The progress is very gratifying, and the tables are necessary to a proper showing of the condition of the several industries:



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PRISON LABOR.

The investigation of the system of State prison contracts, and the complaints arising from the alleged abuse of free labor by the competition which the State prison contracts permit, has been as thorough as the means at our hands have permitted. In October last the commission visited the Joliet penitentiary, and investigated the workings of the system there. The prison authorities showed us every courtesy in their power, and explained in detail the history of the public account and contract systems. Both have been tried at different times by the authorities, and their experience warrants them in the opinion that the contract system works to the best advantage of the State, and that the competition with free labor is less hurtful than under the public account policy. At the time of our visit to the prison there were employed on the different industries represented by contractors, the following number of convicts, as shown by the check-roll of October 16, 1880:

BY CONTRACTORS.

Contract.	Number Contracted for.	State Runners.	Number on Contract.
Cigar	120	2	10:
Harness	100	2	9
Boot	425	7	25
Shoe		4	17
Wire	115	2	100
Cooper	180	11	17:
Marble	60	1	6
Granite	50	1	4
Knitting	25-50	1	4:
Stone	90	3	8:
Total by contractors			1, 13

BY THE STATE.

Department.	Number.
State shops	49
Stable and teaming.	15
Yard gang	38
Store and farm	12
Convict kitchen	15
Wash-room	27
East cell-house	12
West cell-house.	17
Hospital nurses.	5
Warden-house	36
Female convicts	24
New men in solitary.	` 2
State runners.	• 34
Total for State	286

The practice of the theory that the penitentiaries of the State must be made to be, as near as possible, self-supporting through the earnings of the prisoners, is the cause of whatever evil, through competition, the free labor of the State suffers from. It matters not whether the State employs the labor in manufacturing products and then disposes of them in the markets of the State or nation, or whether it leases their labor to individuals or firms who choose to use it, and who dispose of the products of the convict labor;—the result is the same: the State is entering into competition with at least a portion of her citizens; and so long as this condition or exaction of self-support is put upon the management of our penitentiaries, so long must this burden be borne, in one way or another.

It would seem, to observers who do not look below the surface, that the fact that the labor of the convicts in our penitentiaries is let at from one-fourth to one-third the market value of free labor, would leave a large margin for profit to the contractor; yet, the testimony of a majority of the contractors is to the effect that the difference of profit to them is very slight, and the only redeeming feature of the employment of convict labor is the freedom from strikes, and that once the labor is contracted for, they can depend upon the price to be paid for it, and use it in contracting for the manufacture of products during the term for which their contracts run, whereas they are not sure of stability in the price they would have to pay for free labor.

The penitentiary commissioners, in their report for 1877, state that they were compelled, early in the year, to cancel the contracts, through the failure of the contractors, for the labor of nearly five hundred of the convicts in the prison. The contractors were then

paying prices ranging from 46 to 81\frac{1}{3} cents per day per man, and the new contracts were made at a material reduction from those figures.

The following statement shows the earnings of the convicts in the Joliet penitentiary during the two fiscal years for which the report was made, together with the average contract and earning prices of the inmates:

1878-79.

Months—First fiscal year.	Under Labor Contracts.		On railroad	In female	Total.
	No. days worked.	Amount earned.	dock.	prison.	
1878. October. November December 1879. January February March April May June July August. September.	30, 507 30, 026 31, 470 27, 850 28, 920 27, 790 28, 567 27, 128 27, 838 29, 262	12, 611 62 12, 337 42 12, 977 43 11, 598 38 12, 159 37 11, 569 16 11, 920 46 11, 367 28 11, 638 92 12, 476 62	15 20 11 00 12 45 13 10 14 10 13 05 21 93 16 10 16 60 15 95	188 23 134 95 140 02 153 91 168 62 156 93 168 32 152 08 154 96 144 22	12, 760 05 12, 483 97 13, 130 28 11, 765 39 12, 342 09 11, 739 14 12, 110 71 11, 538 48 12, 636 79
Less allowances for overcharges		\$147,081 05 150 55		' 	\$149, 054 42 150 55
Convict labor to contractors (see balance sheet	352, 056	\$146,930 50	\$184 58	\$1,788 79	\$148,903 87
State Shops.—Earnings for fiscal year	ending Sep	tember 30,	1879 (see b	al. sheet)	
Total earnings		· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	\$160,393 21

1679-80.

Months—Second fiscal year.	Under Labor Contracts		On railroad	In female	Total.			
	No. days worked.	Amount earned.	dock.	prison.				
1879. October. November. December. 1880. January. February. March April May June July. August September.	29, 088 32, 581 33, 095 29, 847 34, 192 32, 442 32, 074 32, 258 31, 696 31, 015	12, 985 57 15, 081 19 14, 301 50 14, 160 77 14, 328 40 14, 079 41 13, 816 90	15 90 18 90 16 90 11 75 18 45 19 20 19 65 15 50 18 05 17 55 16 00	134 80 127 73 185 19 145 88 161 84 135 56 120 66 151 20 191 52 222 00	13, 143 20 15, 261 48 14, 456 22 14, 301 08 14, 495 10			
Less allowance for overcharges		127 55			127 55			
Convict labor to contractors (see balance sheet)	379,885	\$166,093 51	\$208 20	\$1,919 60	\$168,221 31			
State Shops.—Earnings for fiscal year ending September 30, 1880 (See bal. sheet)								
Total earnings. \$180,906 47 Average contract price paid per man per day								

Different theories have been advanced for the abatement of the evils attributed to the competition which the employment of prison labor in the productive industries has caused. There is no doubt but that it takes from the free labor of the State the work which the prisoners perform; and it is the opinion of your commissioners that it has cheapened the price of labor in some of the industries. Yet, so long as the State expects its prisons to be in a measure self-sustaining, this condition cannot be changed; and we think the contract system presents fewer evils in the way of competition than the public account system.

From a very exhaustive report on this question, in 1879, by the Massachusetts Bureau of Labor Statistics, we have compiled the following, as a digest of the opinions of the most experienced authorities, on the various systems in vogue in this country and in Europe. It is full and explicit, and is the most able report that has been prepared on the labor side of this great question. In that report

Hon. Carroll D. Wright, chief of the burean, says:

"There are in the United States two systems of prison administration—the warden and the lessee. With prison administration we have nothing to do. There are three systems of employing convicts:

"First. The contract system, practiced in Massachusetts and nearly all Northern prisons; and it consists of letting the labor of prisoners to the highest bidder, such labor to be employed usually within the walls of the prison.

"Second. The lessee system, which consists in leasing all State convicts to a party for a stipulated sum per annum; the lessee to feed, clothe, discipline and to have all the care and maintenance of the convicts. This system prevails in Georgia and other Southern States.

"Third. The "public account" system of employment. By this method the officers of the prison purchase raw materials, manufacture goods, and sell them in the market, the same as any manufacturing establishment.

"All these systems have their friends and warm advocates."

"The various presentations give us all the available prison statistics relative to the subject of convict labor. The examination of the boot and shoe interest will enable the Legislature to see more clearly the relation of the statistics presented to other facts gathered during the investigation. This industry is taken for illustration, because it is the largest in this State, the product being \$90,000,000 per annum; because it is from this trade the most complaint comes, and because the elements essential to a close analysis of the manufacture of goods in the prisons are more easily obtained from boot and shoe manufacturers.

"From the table for Massachusetts it is seen that 749 prisoners, (713 males and 36 females) are employed in making boots and shoes; but, of this number, 165 (males 149, females 16) are on slippers, and the balance, except the 200 convicts at the State prison, are short-term prisoners, whose labor is almost worthless, and for which no reasonable estimates or calculations can be made. Their work is not recognizable in the trade. The complaints are against the employment of the 200 men by contract at Concord. To determine just the relations of the results of the manufacture of boots and shoes in

the prison at Concord with the manufacture of like goods outside, we must use the product of work compared with product, and the proportion of the cost of product which belongs to or is paid for labor in both cases.

"At the present time the relation of the cost of labor to the value of the product in the manufacture of boots and shoes outside of prison is as 1 to 3; that is, of every dollar's value of product, 33\frac{1}{3} per cent. goes to labor. This statement is the result of the experience of many of our leading manufacturers, although some of the most prominent proprietors put the value of labor at 27 per cent. of the product. It is safe to say, as the result of combined experience and of the testimony received, that the weight of evidence is in favor of the proportion first stated, that 33\frac{1}{3} per cent. of the product goes to labor; and labor includes the wages or salaries of foremen. The ratio of labor to product in prison work is 31\frac{1}{4} per. cent. This includes the same elements used in obtaining the ratio outside the wages and salaries of foremen, instructors, etc.; the expense of the latter being much greater in prison than out.

"These statements, which are given us as facts by reliable parties, although they are denied, show that the advantage to the prison contractor is really about 2 per cent. in the production of goods, on the average. Of course on stock items he has no advantage over

the outside manufacturer.

"Parties who write or speak upon convict labor are apt to take it for granted that the product per man is the same for the prisoner as for the outside worker. In this they err. The product of each person employed in the manufacture of boots and shoes in Massachusetts is \$1,858 per year, that is, 48,090 operatives—the number of persons so employed in 1875—produced \$89,375,792 worth of goods. The product of prison work per man is \$1,142 per annum. The 200 men employed on boots and shoes at Concord produce \$228,575 worth of goods per year, on an average, while the same number out-

side would make \$371,600 worth of goods.

"Outside of prison, manufacturers, when the season is dull, shut down, or materially reduce the number of their hands, and, of course, relieve their pay-rolls. In prison, the contractor pays for the men he contracts for through the whole year, whether the demand is good or bad. A leading contractor for the manufacture of boots and shoes in our State prison allowed his men to remain idle during March last, preferring to pay the State for them than to keep them employed, because, as he testifies, he could not compete with outside manufacturers. It was less loss to him to pay wages than to make goods. Another stated that men were allowed to remain idle, because leather was falling in price, and he preferred to pay wages rather than to accumulate stock. In either case he could not avail himself of the privilege of the outside man to discharge his opera-The contractors claim that if out of prison work, with their experience, they would not enter it. An extensive manufacturer of boots and shoes, who runs a large prison force, and also several factories outside, testifies that he makes larger profits from his outside factories than from his prison contract; and that, if he was out of it, he would not again take a contract for prison labor. No contractor will object to the abolition of the contract system on personal grounds.

"Prison contractors fail in business like other men. They throw up their contracts, sometimes paying forfeitures rather than to continue. We have given the figures obtained from the most reliable sources on both sides, and briefly allude to the opinions of con-

tractors. What are the opinions of manufacturers?

"In Maryland, the Baltimore shoe manufacturers testify that prison goods made there help them to keep up prices, while in many lines outside manufacturers claim they can undersell the prison contractor. Interviews with nearly sixty of the leading shoe manufacturers of this State do not show any very alarming competition, injurious to the trade, resulting from productive industry in our

penal institutions.

"One large manufacturer (A) stated that he had at one time believed that prison labor must, of necessity, injure outside labor. He knew, he said, that Rice and Hutchings had the labor of 100 prisoners in the State prison for 40 cents a day—a very small sum to pay for labor, and at first glance would seem to give them great advantage; but the great drawback is, that, by the terms of their contract, they are obliged to pay their men the whole year round, whether they are employed or not. There are other drawbacks; for instance, prison-made goods will not sell so readily; buyers are shy of them; as a rule, they cannot feel sure of the goods being well The partner of the gentleman referred to remaarked that he did not see how prison labor could much affect the shoe business one way or the other. If all the convicts at Concord were put to making shoes, he would not care. It would only amount to one more large factory; and the shoe business of the State could stand that, in his opinion. In answer to the question, "Do you know of any instance where your own business has been affected by prison labor?" both partners answered, "No." And to the question, "Has it ever caused you to reduce the pay of your employes?" they answered, "Never."

"Another large dealer and manufacturer (B) said 'that he knew of no injurious effects to his business from prison labor; was very glad the subject was being investigated, as he was satisfied that the most erroneous ideas were entertained in regard to it by many who ought to know better; in his opinion, it has been too much of a handle for small politicians to use for their own advantage, and that so many preposterous and ridiculous statements had been made, it

was time the real facts were known.

"From the third establishment (C) we obtained these statements: 'Sometimes prison-made goods put into the market have had the effect to lessen my profits. Buyers will quote the prices of goods made in prison, and, rather than lose a good customer, I have more than once sold at too small a margin over cost; but business men must expect these difficulties. The shoe trade is carried on by men full of enterprise, who are in close and constant competition with each other, and the effect of prison labor is a small item in the calculation.' He said, in reply to questions, that prison labor had never caused him to reduce prices, and he never heard that it had anywhere

"From a celebrated house (D) we learned the following: 'There is no doubt our business has sometimes been injuriously affected by convict labor. Buyers often quote the prison contractor's prices. A short time ago we made up a lot of men's boots which we intended

selling at a certain price, but the contractors made similar goods, which they put on the market three dollars less per case, thus fixing the price; and we we were obliged to sell the entire lot, if not at a loss, at all events with little or no profit. But it is the prison labor of other States which injures our business most. It competes very injuriously with our western trade.' In answer to the question: 'Has prison labor ever caused you to reduce the wages of your employés?' the firm stated, 'Can't say it ever has directly, but, without doubt, it has that tendency.'

"One of the heaviest firms in the United States (the factories located in this State) gave positive statements to the effect that several hundred thousand dollars of trade had been withdrawn from their house on account of the prison-shops of Illinois and other Western States, and that their help had been, or would be, cut down at least ten per cent, through the direct influence of prison-

made goods.

"The following discussion took place between Mr. Rice, a member of the Hewitt Congressional Labor Committee, at one of its sessions, and a prominent boot and shoe manufacturer of this State:

and a prominent boot and shoe manufacturer of this, State:

"Mr. Rice—'There has been a complaint made about prison labor. Have hou had any experience in employing convict labor? If so, state the result to the employer. Is it an unfair competition against ordinary outside labor? State whether convict labor affects unfavorably honest labor." "Mr. Walker—'Convict labor is related to and comes in competition with other labor, just as machinery is related to the labor which it is designed to supplant; that is, if you have a thousand men absolutely idle, and you set them at the work, and they produce a given result, they stand, with relation to all the rest of the community, just the same as a machine producing that result. Every convict must either support himself by labor or must be supported by taxation; and I suppose that, in this day, no one will dispute that taxation ultimately falls upon labor and is taken from the results of labor. Now, either these convicts must labor to support them. Leaving all humanitarian questions out of the problem, they are simply thinking machines; that is all there is about it. Their labor does not unfavorably affect other labor any more than machinery does; and there is just the same reason for employing convicts who would otherwise be idle that there is in employing machines.'

"Mr. Rice—'I suppose you have convict labor?"

"Mr. Walker—'I had used convict labor five or six years before carefully determining whether it was to my advantage or not. Subsequently, I had a contract for three years more, and I carefully kept the figures. The apparent advantage to me was \$1,500 a year; but when I took into account the quality of the work, the damage that may come from it, and the inconvenience of employing convict labor, I thought that, on the whole, I lost a sum nearly equal to the apparent saving.'

"Mr. Rice—'Then you do not think that convict labor bears unfavorably upon other labor?"

"Mr. Walker—'The letting of convict labor is by contract. Anybody who chooses can

'Mr. Walker—'The letting of convict labor is by contract. Anybody who chooses can bid for it. I think that there was two dollars lost where there was one dollar gained by the employment of convict labor, until quite recently. Up to the time of the war, I think that nearly every man who had contracts for convict labor lost money upon them; certainly every one in our trade did. But during the period affected by the war, several parties made considerable sume of money on them; ties made considerable sums of money on them.

"The quotations give a fair idea of the views of many of our leading men engaged in the boot and shoe trade. The last three

are the only instances of any facts being given.

"The problem, how competition can be prevented, cannot be solved except by the abolition of all labor in penal institutions. This would effectually prevent competition; and it is the only way. Whenever and wherever a man works, he is the competitor of another man

"This solution cannot be recommended. We do not believe the sentiment of the people of this age demands any such solution, although there were in the House of Representatives of the legislature of 1878 seventy members ready to vote for such a solution. Occasionally the opinion is expressed that all labor should be abolished in all penal institutions; for then the incarceration would

indeed be punishment. And to make punishment seem vengeance is the aim of one class of minds; but it is well recognized that

vengeance does not belong to the State.

"With rare exceptions, all manufacturers, workingmen, prison authorities—certainly philanthropists and prison reformers, labor reformers, socialists—agree that productive labor should be carried on within our penal institutions. We shall discuss this matter with this view; for with the other—that of the abolition of labor—no discussion is essential: the remedy would be complete. The age for such discussion has has passed entirely. We must therefore discuss the questions with the foregone conclusions staring us in the face, that productive industry should and must be carried on in prisons, and that competition cannot be avoided so long as two men labor or are employed.

"Is there then an evil existing? and if there is, can it be removed? or, if it cannot be removed, can it be lessened? These are practical questions, and it is our duty to address ourselves to them.

"It cannot be proven that any great evil, growing out of convict labor, exists; but it must be admitted that there is a seeming, and may be at times a positive, evil existing under the present contract system. It is usually against the contract system that charges are made, and not against the employment of convicts.

"There are three classes of persons who demand the abolition of

the contract system:

"First—The prison reformer, who does not believe that the best prison discipline, with the best reformatory measures, can be sustained where the contract system prevails.

"Second—The socialist, who desires to have all industries controlled by the State, and, above all, as an entering wedge, to have prices of labor and of goods directly or indirectly established by the

State taking exclusive management of its prison labor.

"Third—The labor reformer, who does not wish to see a contractor make an undue profit from the labor of convicts. He also wants the State to run its own prison industries, so that the State shall have the whole profit, and so that no goods shall be undersold in the market. With this class, the manufacturer who seems to feel injured is found.

"All these classes are sure the contract system is bad, and some of the members of each class have remedies to suggest; but it is exceedingly rare that anyone gets beyond the statement that the

old system is evil itself, and a new one must be adopted.

"The experience under any system is perhaps too recent to indicate very positive results, for the employment of convicts upon productive work is of very recent date. The tread-mill, the crank, and other devices for "hard" but useless labor are not entirely out of sight. To discuss the claims of the prison reformers that convict labor should be abolished, we must first decide what is the policy of the State. If she desires to change her prison policy—which is now, as near as it is possible to define it, penal, with all the reformatory methods which can be carried on without interfering with the penal character of her prisons,—to a policy entirely reformatory, then, undoubtedly, the demand of the prison reformer is sound. His demand is, that the industries of the prisons shall be carried

on by the same officials who administer the other affairs of the institution; that all the profits of the concern shall go to the State; that the warden or other officers shall purchase the raw material, and superintend the manufacture and sale of goods. This system we have denominated the public account system. The reformatory advantages claimed for it are that the convict feels that his labor is entirely for the benefit of that public which he has outraged, and to which he owes something; that he can be induced to work more diligently because he receives more direct results from his labor in the way of personal advantages; that the presence of the foremen and instructors does not interfere with the discipline of the prison; and some other features not essential here.

"The change demanded by the prison reformer does not in any way avoid the objections of the labor reformer, but provides for reformation of the convict at all events, without reference to competition, or whether the institution pays expenses or not. He would make it pay if possible, but he would sacrifice profit for reformation; and we are with him in this, but cannot see the great force of his argument that the contract, even under proper regulations, is his chief stumbling-block.

"The second class referred to—the socialist—has no other reason than that stated in the classification, unless he sees, in the abolition of the contract system, the opportunity of increased official position; for the socialist would have all things controlled by officials, and would leave nothing to individual enterprise.

"The demand of the third class—the labor reformer—is exceedingly difficult to define. He wants the contractor abolished because he causes competition in trade; but, in place of the contract, he wants to establish the public account system in some form. It is greatly to the credit of the workingmen of this country that, as a general rule, they are in favor of productive labor in penal institutions; but they are striving to correct an evil which either does not exist or is exaggerated. If his demand—the abolition of the contract system—is answered by the general substitution of the public account system, then inevitable results will be increased taxation and the breaking down of great industrial interests; for the State is but a small municipality after all, and the moment it enters the field as a business competitor, it must sell its products. Other States follow—must follow; and then comes the whole body of States in active and open competition with their own industrial enterprises. A State cannot, with the welfare of the greatest number in view, enter this race; besides, it lacks that individual personal spirit of enterprise which enables individuals to take great This course a State ought not to, and cannot, undertake. Its work is not industrial, but productive; not speculative, but fostering in its nature. The best good of the whole community is the best good of the laborer; and, should the State conform to his demand to take the immediate management of the industrial work of our prisons, he would find his own personal good sacrificed with that of the community.

"The manufacturer who joins in this demand, for the reason just stated, would see in the changed order of things a mere shifting of his difficulties; only they would shift from minor to major troubles; from often imaginary, to always real and ruinous competition. Wherever this system has prevailed, it has caused more slaughtering of prices than any other; yet, the parties who demand it find no fault. They can see the most unjust results from contracting for the labor of convicts, but can see no harm in contracting for the products of the same labor. The Cleveland workhouse, the Maine State prison, the house of correction at East Cambridge, and the reformatory prison at Elmira, are the leading institutions where the public account system prevails. Brush-making is the leading industry in all but the Maine prison; there carriages are made; and there is more actual complaint made against these four institutions, so far as the trade is concerned, than all the others combined. The Cleveland workhouse and the Elmira prison pool their products and sell through the same agents. Of course, the agents have a price-list; but it is only nominal. In Ohio, the labor reformer is satisfied with this, or even to have all products sold at auction, in open market.

At Elmira, he would be satisfied with a proposition, recently made to the prison reformers by a capitalist, to sell goods made at prison in his line (hollow-ware), but to his own customers; he to superintend the manufacture, and to take a percentage of the net profits. This was satisfactory to the agitators, although it simply amounted to the State furnishing the capital to carry on business, and giving a man a part of the profits, he running no risk whatever. But it avoided the name—contract. In the Maine prison, which contains but 209 convicts, all at work on public account, the system has been comparatively successful pecuniarily, although, recently expenses have not been quite met, on account of shrinkage of values. The experience in Maine has been good under this system, and bad under the contract; but the reverse of this is true, with few exceptions, wherever tried. In Maine, the success is mainly due to the locality of the prison—Thomaston; the distance from labor market, etc.

"The Eastern Penitentiary of Pennsylvania, at Philadelphia, is run on the public account system; but at this prison no attempt is made to pay expenses. The prison is run on the "separate cell system," and labor is used entirely as a reformatory measure, the

profits being considered incidentally.

"The testimony of wardens everywhere, and almost without exception, is against the claims of the third class. They assert, and with reason it seems, that under such a system the prison becomes a vast shelving-place for appointees; and that all the objections which can possibly be made against the contract system, on account of the presence of contractors and their men, apply with double force against the public account system; and, further, that, unless the productive labor of a prison is confined to one or two branches, it is impossible, as a rule, to find a man well versed in all, and a good executive officer besides. Yet, the former demands, along with the public account system, the greatest diversity of employments to be carried on in the prison. This simply increases the difficulty of running the industrial interests of penal institutions by the State.

"The resolve, under which we act, speaks of preventing competition. We have, so far, considered the sources from which demands emanate for the abolition of the contract system. What are the substitutes offered, or the remedies suggested, for alleged existing evils? In our investigations and researches, we have heard of seven propositions, namely:

"I. The abolition of all labor in penal institutions.
"II. The prohibition, by law, of any contract for convict labor, at lower rates per day than the average paid for outside labor of the same kind.

"III. The reduction of hours of labor in penal institutions to six

per day.

The general introduction of the public account system.

"V. Greatly increased diversity of employments, under either

"VI. The employment of convicts, upon public works, by the

Government.

The employment of convicts on work requiring the greatest expenditure of muscle, and the least outlay of capital, either in raw

material or in machinery—work on stone, etc.

"These propositions are worthy of the most careful consideration; yet we must discuss them only from the industrial side, the question of prison reform and its relation to the propositions not being committed to this office. If it were, we should unhesitatingly say that the idea of profit, or even of paying expenses from prison labor, should occupy only an incidental and auxiliary position in the State's system of prison administration, the whole attention belonging to the reformation of prisoners. but under the existing system, requiring the best reformatory measures consistent with a strictly penal policy, we shall take the industrial view of the question, which involves only the matter of competition:

I. The Abolition of Labor in Penal Institutions.

"This proposition presents a complete remedy; but it is as insane as the convicts should become if it should be carried into effect. Every man is the competitor of another; and the only way to avoid competition resulting from convict labor is to hang the convict or keep him in idleness. While the State's policy is, as it always should be, to send a man out of prison better than he came in, this proposition cannot be adopted; nor would it be wise industrially, for crime begets crime, and the chief source of trouble to the workingman from prisons is the expense of crime now. The abolition of labor would increase the expense in every direction, not only in the punishment, but in the care of criminals. The labor of convicts does not so much harm the interests of the workingman, as does the amount of petty crime which is committed simply for the support which a sentence to some short-term prison secures. interests of the workingmen would be much better subserved by the doubling of terms of sentences. We have been constantly reducing the length of sentences for many crimes; but this has not as constantly reduced the amount of crime. The expense of prosecuting and supporting a class of criminals who are not really criminal-minded men, but indolent, and seek support more than the gratification of vicious tendencies, is a serious question of our present civilization; and it strikes the writer, that, instead of returning to the barbarism of no labor in penal institutions, the workingmen had

better insist upon longer sentence for certain classes of crime, and maybe the establishment of a lesser barbarism—the whippingpost or the chain-gang. If we must return to one or the other, we should take that which affects the pocket the least. It may be that public morals would be benefited by the whipping-post and the chain gang, as well as the pockets of the taxpayers. It is not the business of the writer to recommend them; but he feels strongly tempted in There is nothing to be gained by the abolition of that direction. labor in prisons. It was only a few years ago that labor was permitted; and its institution should not be repealed, certainly till the fullest possible trial. It is only the few who desire this proposition The New York State Commission (1871) on Prison to be adopted. Labor, after spending several weeks in the examination of witnesses, ses, for one of its conclusions arrived at the following:

"The opposition of the workingmen of the State is to the contract. system alone, and not at all to industrial labor in prisons; and not only do they not oppose such labor, but they desire that criminals should be reformed, as the result of their imprisonment; and they believe that this can be effected only through industrial labor, in combination with other suitable agencies, and as the result of the acquisition, as far as that may be possible, of trades during their incarceration." And this is the general sentiment of the people of

Massachusetts.

"It would be absolutely useless to take up space with citations of authorities bearing upon this point. The Convention of Hatters at Orange, N. J., September, 1878, passed, among others, the following resolutions:

Resolved. That while we heartily indorse any system calculated to restore criminals to respectability and self-respect, yet we do not consider it necessary to make mechanics of them, nor feel it incumbent upon us to pay for their moral reformation with the loss of our labor and wages. If convicts must be kept employed, this can readily be done, as it is in all other civilized countries, at other than skilled labor, and without making them direct competitors at industrial pursuits.

"Resolved, That every consideration of common sense and sound public policy, together with a due regard for the welfare of their constituents, the great mass of whom are mechanics, and for public opinion, should induce Legislators everywhere to concede our just demand that convict labor be abolished.

"The first makes a broad misstatement relative to the labor in all other civilized countries. These resolutions do not, we are happy to state, represent the sentiments of either manufacturers or workingmen in this country to any great extent.

The Prohibition by Law of any Contract for Convict Labor at Lower Rates Per Day than the Average Paid for Outside Labor of the Same Kind.

"To secure legislation to this end, petitions have been extensively

circulated and signed.

"The petitioners might save ambiguity of meaning by asking for the abolition of all labor in penal institutions at once; for while it is in the province of the Legislature to fix the price at which convict labor shall be contracted for, if at all, it cannot compel contractors to take it at the price fixed. Such legislation would defeat the purpose for which it is asked, unless the law suggested should also provide that the convicts contracted for should be employed at such times as the contractor might elect. With this provision convict labor might be thus contracted for; but it is hardly possible. The socialist would hail such legislation with delight; for it would be in the direction of his demands that the State shall establish prices of labor and goods. Any legislation to establish prison labor at outside prices would react upon the State. A law of this kind exists in France; but a remission of 20 per cent. is made to the contractor. Ohio has fixed the contract price by law, but sees as a result one-third of her State convicts in idleness.

"III. The Reduction of Hours of Labor in Prison to Six Per Day.

"This proposition comes from some of the most intelligent and even philanthropic manufacturers in the State. It is suggested with the thought that the present contract price per day for prison labor would obtain, and the producing capacity of the convicts be reduced four-tenths. This is well enough in theory, and would remove the objections of manufacturers, in a large degree, to convict labor; but the obstacle in the way of reducing it to practice is that referred to under the preceding proposition. The Legislature can easily enough say that convict labor shall be employed for six hours per day only, and at 40 cents; but the Legislature cannot compel a contractor to take the labor upon such terms. This proposition is the same thing in results as the first and second.

"IV. The General Introduction of the Public Account System.

"This proposition we have considered under the demand for a change; and we need not repeat here our remarks upon the subject, or the reasons usually for or against the system. It is the pet theory of nearly all prison reformers; and, on a small scale in reformatory institutions, and under exceptional conditions, it is undoubtedly the best system; but so long as "the successful management of the industries of a prison requires experience and business tact—qualities that can be acquired only by long practical familiarity with such management" (a conclusion reached by the New York Commission referred to)—it is not reasonable to expect to find a man also equally versed in all the details of the manufacture of goods, especially when a diversity of industries is also advocated as essential to the prevention of competition.

essential to the prevention of competition.

"Ninety-five per cent. of business men fail during their business career. Can better qualified men be found for State work than

make up the majority of our business men?

"And these failures are largely in chosen branches of trade, where the laws of choice are regulated by a more logical process than that of official appointment. No financial failure, so far as bankruptcy is concerned, could occur under the system of State management, because profit is not an essential, and because the people would be taxed to make up any deficit, as they usually have been, when this system has been adopted. But the worst feature of it is, that competition is made ruinous by it, when under the contract system, so far as this State is concerned, it is chiefly annoying.

"If Massachusetts needed for the supply of troops, or for any other purpose of public service, a large quantity of clothing, boots and shoes, or other supplies, it would be well to manufacture all such goods on the State account, because, while it would compete in consumption, and cause some of her own industries to lose the opportunity of furnishing such supplies, it would not cause any competition in prices of goods sold in the market. If the United States sustained a large standing army, navy and police, all under national control, the government could, with prisons under national control, manufacture the supplies needed, without causing the least competition in prices, and yet make the prisons self-supporting. "The English Prison Commissioners, in their first report, state

"The English Prison Commissioners, in their first report, state that steps are in contemplation for the classification of prisoners, with the view to producing supplies for government use, in prisons; and that articles might be supplied, not solely for prison use, but also for other branches of the public service. The local prisons might thus supply, at prices considerably below ordinary contract rates, such articles as clothing and necessaries for soldiers, sailors and police, furniture and fittings for offices and barracks, and other articles. The British Commissioners of Prisons are of the opinion that this system, already adopted to some extent in the convict prisons, may now very well be extended, with great pecuniary advantage, to the public departments in whose service prisoners' labor may be employed."

V. Greatly Increased Diversity of Employment under either System.

"The New York State Commission, before referred to, as one of the conclusions resulting from their extended investigation of the

questions involved in convict labor submitted the following:

""While the products of prison labor are not sufficient to sensibly affect the general markets of the country, there is no doubt that in particular localities these products do come into injurious competition with those of outside labor; and, whenever such competition occurs, it is the result of the undue pursuit of one or but a few branches of labor in prisons to the exclusion of all others—a result which points to the multiplication and equalization of trades in institutions of this class."

"These conclusions are exceedingly sound, and are thoroughly verified by the investigations of this bureau. Eminent foreign authorities could be quoted, to considerable extent, upon this very point, of the necessity of diversity of labor in penal institutions. In this proposition, more than in any other, lies the solution of the problem indicated by the resolve under which this investigation has been made, although it meets with opposition. The manufacturers and operatives engaged in a weak industry—not one thoroughly established, or turning out but a small annual product—insist that the industries of the prisons should be those of the greatest magnitude in the State; the shoe business for instance, because, to carry on an industry insignificant in itself, like the gilt-moulding business, in the prisons, is to crush the industry outside, while the great industry would feel prison competition the least. On the other hand, the men engaged in the great and leading industries, claim that only the weak ones should be carried on by prison labor, because the injury arising from such labor, if any, strikes but few people; if the great industries are carried on, a greater number of people

The well understood principle of insurance, which demands the diffusion of losses, does not enter into this process of The ethics of this age demand that evils, if they must be borne, shall be borne as lightly as possible, by their diffusion. It prefers their absolute removal, however. This cannot in all cases—in fact, only in few—be accomplished. The amelioration of bad conditions is usually the most that can be secured. So, in this prison question, the diversity of labor or of pursuits in prisons seems to be the very best suggestion yet made. The shoe trade of this State has some cause for complaint, not against the prison labor of Massachusetts to any great extent, but that in nearly all States where productive labor is carried on in prisons, the first resort is to the manufacture of boots and shoes. Our manufacturers, who have a large western trade, are especial sufferers from this concentration upon one industry; and, although there are not over 2,500 convicts employed in the State prisons of the United States upon boots and shoes, they are, with but few exceptions, engaged upon that class of work for the consumption of the working people, which competes directly with the business of Massachusetts; and it is susceptible of positive proof that, from the effects of the manufacture of boots and shoes in Western prisons, the wages of some operatives in Massachusetts have been reduced certainly 10 per cent. No specific legislation by this State can cure, or change even, this condition of things. The question has too many ramifications to be handled by State legislation. These and kindred questions in the body politic demand national investigation; and this country suffers in this as in other matters from its attempts to harmonize the many conflicting elements resulting from our separate State sovereignties. We believe diversity of labor can better be accomplished by the contract system than under the "public account,"

From the "Transactions of the International Penitentiary Congress," held in London, July 3-13, 1872, (London: Longman's Green, & Co., 1872,) we make the following quotations, being official statements made at the congress for the countries designated:

"Belgium: 'The industrial labor of the prisoners is in part directed by the administration itself, and in part awarded to special contractors.

* * * The contract system, such as it exists in our prisons, is that to which our preference would be given, as well because of the certain and great benefits procured by it to the treasury, as well because of the facility which it offers of diversifying the labors of the prisoners by the administration itself.'

"Prussia: 'Only in urgent cases, and to a very limited extent, is industrial labor done for the administration. Usually, this labor is conducted by contractors, who agree to pay

a sum stated in the contract for each day or each piece work.

It is thought very important to have such a number and such variety of trades, that, in allotting prisoners to their work, due regard may be had to their trades before admission, and to their capacity.

It is considered highly important for a prisoner to learn, during his imprisonment, how to help himself on his liberation.'

"Many extracts of similar import, relating to Italy, the Netherlands, Russia, etc., might be made from the document quoted, and from others.

"The New York commission, already cited, because conducting its investigations near this State, and upon the same topics now demanding our own official attention, furnishes the most interesting collection of statements and conclusions as the results of its labors:

- "a. 'The contract system of labor is bad, and should be abolished.
- "b. 'The industries of a prison, as well as its discipline, ought ordinarily to be managed by its head.

"c. 'The successful management of the industries of a prison requires experience and business tact—qualities that can be acquired only by long practical familiarity with such management.'

"They also concluded that, unless the matter of appointments of prison officials could be withdrawn entirely from politics, it would not be wise to commit the industries of a prison management to its head. The conclusions quoted are the doctrines of the prison reformer, and, from his standpoint, are good; but, from his standpoint also, he is obliged to adhere to them, and still to recommend the greatly increased diversity of employment. The two sides of his doctrine will not agree. It is seen, from what has been said, that, while diversity of employment must of necessity tend to reduce whatever injurious competition may exist, it can best be accomplished by the contract system. We are satisfied that in the greatest practicable diversity of employment under well-defined contracts, properly and publicly secured, lies the best remedial proposition relative to competition in trade, and the essential reformatory methods the policy of the State demands.

"VII. The Employment of Convicts by Government upon Public Works only.

"If this system should be adopted, it would not, as we have said under proposition IV, avoid competition in labor, but it would completely remove any supposed or real competition in prices; that is, it would not affect the products of manufacturers. This proposition is warmly advocated by both manufacturers and by workingmen. It is plausible, but somewhat seductive. It removes the actual competition from one realm to another. By industrial labor in the prisons the contractor competes with products of industries in price

The manufacturer has his goods to sell, and his operatives their labor; and both desire to keep the prices up, although the latter are the most strenuous in beating them down. ferring prison labor to public works, the State would not compete with the price of artisans or of laborers' work, but with the work The brick and stone masons, the carpenters and painters, the hod-carriers and tenders, would not find the price of their labor affected to any material extent, but would find the market for that labor occupied to the extent of the works in process of construction.

"It has been suggested that the State might engage in some work that would not be performed unless by convicts, such as macadamizing the roads of the whole State. This would necessitate one of two things—either the preparation of stone at the prisons, involving the transportation to the prison from the source of supply, and from the prison to the place for use, or the mobilization of the convicts to the points not only of supply, but of consumption, involving a heavy expense for guard duty and temporary confine-This proposition is made upon the ground that the government should not make the question of expense or profit one of any importance, but should seek only to keep convicts at work as the best policy, and yet itself receive some lasting benefit from the necessity it is under of feeding and clothing them. The chances of escape under this system, of course, multiply greatly, and consequent demoralizing effects upon communities from witnessing large bodies of criminals at work openly are objections clearly shown to be well grounded by the experience of Southern States, where the lessee system has been adopted. Curiously enough, the labor reformer of the South causes annual agitation in the legislatures for the adoption of the Massachusetts warden and contract system.

"The advocates of proposition VI do not, of course, recognize the reformation of the convicts as a matter of any importance, but see that the physical, mental, and even moral welfare of prisoners demands labor of some kind other than the penal labor of the crank, the tread-mill or shot-drill. As to the expense account, they say, with reason, the cost of our Massachusetts prisons is nearly \$800,-000 per annum, and all their earnings do not amount to \$200,000.

"They insist upon some system that shall pay this deficit without taxation and without undue competition, and, if this cannot be ac-

complished, tax the balance, but stop the competition.

"In some southern States, convicts are kept at work upon farms, railroads, in mines and quarries, by the lessees; but none, or few of the prison officials are in favor of this. It does, however, pay the State; for all the State has to do with the matter is to sentence the criminals and receipt for the price of the lease. It has been suggested, so far as this State is concerned, that the Government might construct the proposed Cape Cod ship canal, or lay a second track through Hoosac Tunnel, by convict labor; and the prosecution of such work is strongly recommended by a most excellent authority, Major E. F. DuCane, R. E., surveyor-general of prisons of England, in a report to the International Prison Congress, at Lon-

"This opinion and recommendation is so valuable it is given quite

at length. Major Du Cane said:

"A great deal of opposition is made to the Government, either local or central, entering The great deal of opposition is made to the Government, either local or central, entering the market as manufacturers, and competing with free labor. Of course, this is utterly unreasonable; but that does not prevent its having a certain effect. The particular trade which happens to suffer from the competition of prison labor is naturally loud in its outeries, and can always find active advocates; and, on the principle that everybody's business is nobody's business, this agitation is not counterbalanced by a corresponding agitation on behalf of the public, and in the aid of those who act in the public interest. The customs of trade societies are also adverse to the action of government in this way; and I have lately seen that a certain trade society has passed resolutions against being subjected to the competition of prison labor. jected to the competition of prison labor.

"It is so obvious as hardly to require stating, that, as persons who are earning a liveli-hood while free are competing with somebody or other, so it is perfectly reasonable that they should work, and therefore compete equally after being put in prison.

"There is, however, some limit to the degree in which prisons should be converted into manufacturing establishments. I doubt if such employment should be carried on as requires the purchase from public funds of a large and expensive plant and machinery, the value of work done by which would bear a great proportion to the value of the prisoners' labor: because, in such a case, it is not merely competition against prison labor, but against government capital. The circumstances of a prison render the profit a secondary transaction; and, moreover, it cannot be insured that in a government establishment the profit will be so narrowly looked after as if it were private property; so that the profit which should be earned by the public money so expended is liable to be neglected or forgotten, and this would enable the goods made to be sold at a cheaper rate, and so to cause undue disadvantage to the free workman. Many of the disadvantages which attend the system of making prisons into manufactories are avoided by performing in them work required by the government, either central or local; and, certainly, work of this kind should be preferred to any other.

"To give some idea of the public works done by convicts since the system was introduced, I may state that, at Portland, convict prison labor has been employed in quarrying the stone for the construction of the breakwater—a stone dam in the sea, nearly two miles in length and running into water fifty or sixty feet deep. They have also done the principal part of the works of defense intended to prevent an enemy obtaining possession of the island; and I may say. en passant, that these works are, in my opinion, impregnable to any attack, except blockade and starvation of the garrison—a contingency which is out of the question.

"In executing these works, every variety of mechanics' work necessary in building or engineering has been executed by convicts—quarrying and dressing and placing the stone, all sorts of carpentry, casting and forging iron work, and so on. The large and extensive plant has also been made by the convicts, and kept in repair, including the construction of the large cranes and derricks in the quarries, and the laying of the rails for the quarry-wagons to run upon on their way to the place for delivery of the stone.

"Among these works, the largest are—a new prison, for 700 women, built entirely by convicts; new wings to the prisons at Chatham and Portsmouth. At Pentonville, an addition of 327 cells has been made under rather peculiar circumstances. The groundspace is so restricted, that the only way to add to the prison was to raise the roof, and add a story; and, as we were much pressed for room, this had to be done while the prisoners continued to inhohit the prisoners continued to inhabit the prison.

continued to inhabit the prison.

"I have said that all the mechanics' work of these buildings is done by convicts. It must not be supposed that we found these mechanics ready to our hands among the prisoners. Out of 2.245 prisoners now employed at trades, 1,650, or three-fourths, acquired their skill in the prison; and these men will, it is thought, on their discharge, be less likely to relapse into crime, as they will have full opportunities of pursuing an honest calling. The governors of prisons call attention to the great desire exhibited by the prisoners to acquire knowledge of trades; so many being anxious to learn, that it is made a privilege to be obtained only by good conduct. Moreover, it is reported that the cases of misconduct are much fewer among those prisoners employed in trades than among others who are employed jobbing about, although the latter is much the easier work.

In 1872, Mr. Tallack, of London, at the request of the Howard Association. and of the London (central) committee of the International Prison Congress, prepared a paper on the "Defects of the Criminal Administration of Great Britain and Ireland." This work embodies, in a comprehensive but condensed form, the information and observation collected for the Howard Association, and is the result of repeated and extended visitation of prisons at home (England) and abroad, and much conference and correspondence with the most competent authorities in Europe and America.

"This eminent authority tells us, that at the public works at Chatham, Portland and Portsmouth, an immense amount of excavation, quarrying and masonry is every year achieved, the estimated value of which is immense; but, in reality, there is reason to doubt whether many, at least, of these so-called "public works," referred to above by Du Cane) are more profitable to the nation than if the same labor were devoted to building a huge pyramid on Salisbury Plain, or transferring Scawfell to the top of Helvellyn.

"In North Carolina there has been no State prison; but at the present time, under the superintendence of Mr. Hicks, the architect and warden, 360 of 1,200 convicts are at work constructing prison buildings. The stone is being quarried within a few rods of the main buildings; and the excavations left are to be walled, and used as reservoirs. This work is being successfully prosecuted; but the intention is, as soon as it is completed, to enter upon the contract system, believing, as the authorities do, that under it all needed reformatory measures can be carried out.

"In other States—Ohio, for instance—convicts have been employed upon needed public works. At Columbus, they built the present

capitol.

'In Massachusetts there seems to be, at this time, nothing of the

kind for the convicts to do.

"If there should be, it would be an experiment worth the trial to employ the convict force of the State to such extent as might be required.

In the present condition of things, there seems to be no great obstacle in the way of utilizing prison labor upon goods required for

State use—tents for militia, uniforms, prison wants, etc.

"By this means, if practicable, all market competition is removed to the extent of the utilization of convicts upon public works.

The Employment of Convicts on work requiring the Greatest Expenditure of Muscle, and the Least Outlay of Capital, either in raw material or in machinery.

"The advocates of this proposition do not recognize the necessity of reformatory measures to be derived from productive labor, but yet acknowledge the necessity of useful labor, instead of penal labor (tread-mill, crank, etc.), in the care and well-being of convicts. They would have the prisoners employed in breaking and dressing stone, or upon kindred work, within prison walls, but would not allow the employment of machinery...

"They claim that, when a convict is allowed to work in any thing but the lowest forms of employment, outside labor is, to some extent and in some way, degraded. They use, in this connection, the provision of the Massachusetts Statutes (Chap. 179, Sect. 40), that "no convict shall be employed in engraving or printing of any kind," and deduce from this, that, as the State did not wish to degrade so honorable an occupation as the printer's, it should not allow the

degredation of any trade wherein skill is required.

Mr. Tallack, before cited, speaking of the competition from prison labor, states that "the objections sometimes urged, that profitable prison labor competes with honest labor outside, will disappear the more the matter is examined. The utmost number of prisoners (20,000 daily average in England and Wales, amongst more than 20,000,000 persons at liberty; in United States, about 30,000 State convicts, amongst 45,000,000 at liberty), even in full occupation, would probably not affect the large aggregate of free labor to the extend of 6 d. per head per annum.

"And, on the other hand, prisoners, if discharged untaught and untrained, soon relapse, and cost the public £159 per annum, at a low estimate, by their robberies. Besides, every man, whether criminal or honest, has an inalienable right to compete with others by his labor, whether in or out of jail; and an offender will and must compete, either by honest labor or dishonest. He has also as much right to compete by a skilled trade as by an unskilled one. Indeed, it is found that teaching criminals skilled trades is one of the surest means of reformation.

"For, in the case of many of the habitual thieves, they neither can nor will, on their discharge, become ordinary unskilled laborers. If they can earn £5 or £10 a week readily by theft—and many can do this—they are not liable to work hard, at the lowest drudgery, for as many shillings. A skilled trade, or a costly career of depredations, is the only alternative in many such cases.

"There is no danger whatever of any injury by prison labor to free labor, provided only that the former does not greatly undersell the latter, and also provided that a tolerable *variety* of occupations are practiced in due proportions in the jails."

"These opinions are eminently sound, and are as well adapted to this country as to the old. The common laborer has a greater fight with life than the skilled mechanic; and he would have, under the system proposed, as much right to complain as the mechanic now fancies he has. The same kind of competition would exist; it would, however, be shifted upon other shoulders.

"It should be remembered that nearly fifty per cent. of all prisoners sentenced to the State prisons of the United States are under 26 years of age, and that many of them have been taught nothing but crime, and to abhor work. Shall they be sent out with the opportunity of remarking, "We always thought working for one's living was by no means pleasant, and after the dose we have had, we are convinced of it."

This is no way to treat—

"The incorrigible rogues that wise men send, The houses of correction, there to learn That labor is in very deed a curse!"

"We believe the worst competition workingmen would have to contend with on account of prison labor would result from the adoption of a system in accordance with the last proposition. If the State cannot afford to expend \$300,000 per amum on the industrial education of our youth, it must continue to tax the labor of the State to teach them when they become the inmates of our penal institutions. In proposition VII there is temporary relief or palliation of alleged evils; there is also permanent injury to the best interests of the State, not only industrially, but morally. The State of New York tried the plan involved in this proposition at Clinton and Sing Sing prisons; but both attempts were utter failures. It is undoubtedly true, however, that, for a considerable proportion of the convicts, the lowest kind of manual labor would have all the reformatory influence that could be expected from any employment, The seven propositions have been considered as the advocates and

opposers present them, with some of the prominent arguments for or against. The conclusions, which to our mind seem logical as the result of the evidence, are—

"First, That convict labor should not be abolished.

"Second, That legislation to restrain officials in penal institutions from contracting out the labor of convicts at lower rates than the average of outside labor, without allowing contractors to employ or not the men contracted for, simply abolishes labor in such institutions.

"Third, The reduction of the hours of labor to six per day, with the old rates of contract per day, simply abolishes labor in penal

institutions.

"Fourth, The general introduction of the public account system, as a rule, simply aggravates the grievances arising from whatever competition may result from the contract system.

"Fifth, The increased diversity of employment in penal institutions tends not only to lessen whatever competition now exists, but

has an excellent reformatory effect upon the prisoners.

"Sixth, The employment of convicts upon public works, when it can be done, is a feature of prison labor commendable, not only from the standpoint of the labor and prison reformers, but from

that also of the manufacturers and workingmen.

"Seventh. The employment of convicts in breaking and dressing stone, and kindred work, while it palliates the evils of competition, induces to a large degree other conditions far more injurious to the body politic; and that work which requires the most expenditure of muscle, and the least expenditure of capital, is, if it can be had, the best for a large class of convicts, all things considered.

"In addition to these conclusions from the seven propositions sug-

gested, it seems to the writer—

"That the contract system of labor, either by the day or by the piece, is the wisest, as a rule, but that the administration should have power to adopt the public account system if for the interest of the State.

"That the State has no right to expect to make profit, or permit others to do so, out of the labor of convicts, at the expense of their

reformation.

"That, whatever evils may result from convict labor, they cannot be remedied by State legislation, but should receive the attention of the National Legislature.

"There can be no systematic regulation by States alone.

"That there is a certain amount of competition arising from prison manufactures that works injuriously at times and in localities, but no general or alarming injury affecting the industrial interests of the State.

"That the principle involved is not changed by the degree of

injury worked by prison labor.

"That State prisons should be self-supporting, if possible, provided the industrial interests of the State and the reformatory measures of the administration are not prejudiced to an unreasonable extent. The candid consideration of all the premises leads us to make the following recommendations:

"I. That the Legislature memorialize Congress to take action looking to the thorough classification of all facts for the whole

country relative to industrial labor in penal institutions, with a view to placing before the country full and reliable data on a subject whose ramifications preclude full and satisfactory State investigation and action.

"II. That legislation be instituted looking to the production, in the prisons of the State, of all goods required by them, or by any

other department of the State.

"III. That the greatest diversity of employment consistent with the capacity of the prisons be insisted upon; this diversity of employment to be secured by limiting the number of convicts to be contracted for, or the amount of products in any one industry.

"IV. That, whenever possible, farms shall be carried on by the

prison administration, for the supply of the institutions.

The following exhaustive tables show the present status of the convict system of the United States, so far as concerns the different industries. They have been compiled from an exhaustive treatise on the subject by the Massachusetts Bureau of Labor Statistics, in its report on this question for 1880; the figures given are authoritative:

CONVICT LABOR.

CONVICTS IN PRISON AND AT WORK.

Kind of Work Done in Penal In- stitutions in the United States,		victs i n Pr	ison.	Con	ork.	
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
ALABAMA	621 ,	33	654	566	18	58
State Penitentiary, at Wetumpka. At work in coal mines	621	33	654	566 140	18	58 14
At work in saw mills				15		1
At work in iron mines				31 380	12	39 39
ARKANSAS	1	13	521	508	13	52
•	,					
State Penitentiary, at Little Rock. At work on plantations and in	508	13	521	508	13	. 52
b ickyards				508	13	50 1
CALIFORNIA.	l .	1		318		- 31
	1	1 1	1,582			
State Prison, at San Quentin Harnesses and saddlery Labinetmaking and furniture asshes and blinds Tubs and buckets	1,571	11	1,582	318 123		31 12
abinetmaking and furniture				81		. 8
Sasnes and blinds Tubs and buckets.	+			81 33		8
COLORADO		1	155	154		15
		- 1		154		18
State Penitentiary, at Canon City. Boots and shoes		[- 40		4
lasons				8		1
Carpenters				4		•
Blacksmiths				3		
oots and snoes			•••••	18 67		1
CONNECTICUT		63	653	563	55	61
	1		278	261	4	26
State Prison, at Weathersfield Boots and shoes	214	4	218	237	1	22
Prison duties			• • • • • • • • • • • • • • • • • • • •	23		2
New Haven county jail, at New Haven	95	18	113	: 87	18	10
Haven				80		- 8
Prison duties			• • • • • • • • • • • • • • • • • • • •	7	. 18	2
Middlesex county jail, at Middle- town and Haddain.	19		19	13		1
Chairmaking			10	5		
Farm work	ŧ			8		
New London county jails, at New London and Norwich	14	1	15	14	1	1
Chair cane seating and mattress- making		_	10	14	1	1
				1		
Hartford county jail, at Hartford.	101	25	126	101 10	25	19
hair cane seating.				50		į
Boot stitching.				30 11		
Phair cane seating Boot stitching Cicking hair Prison duties				11	25	•
Fairfield county jails, at Bridge- port and Danbury Chair cane seating	4			1	'	
nowt and Danhung	56	13	69	50	6	

Kind of Work Done in Penal In- stitutions of the United States.	Con	ricts in Pr	ison.	Con	ork.	
in which Convict Labor is Employed.		Female.	Total.	Male.	Female.	Total.
CONNECTICUT (Fairfield county jail)—Continued.		:			į !	
Stone quarrying Prison duties	: 	, 		10	·6	. 1
Litchfield county jail, at Litchfield Farm work	•		16	16 16		1
Windham county jail, at Brooklyn Boad-making Prison duties	15		16	15 15	1 1	1
Tolland county jail, at Tolland Laborers outside the jail	6	1	7	, 6 , 6		
DELAWARE	i	. 8	104		<u> </u>	
Newcastle county jail, at Newcastle	† 71	7	78	*		
Kent county jail, at Dover	19	1	20	•	*	*
Sussex county jail, at Georgetown	6		6	•	*	*
FLORIDA	138	3	141 ·	138	3	14
State Penitentiary, at Tallahassee Carpenters	1	3	141	138 3 2	3	14
Peamsters Laborers on turpentine farm Seamstresses		·		131		13
GEORGIA	1, 193	34	1,227	1,193	34	1,2
State Penitentiary, at Atlanta At work on railroads	1,193	34	1,227	1,193 1,193	34 34	1, 25 1, 25
At work in mines) ILLINOIS	2,031	28	2,059	2, 031	22	2, 0
State Penitentiary, at Joliet	1,421	22	1,443	1, 421	22	1,44
Digars Harnesses Boots and shoes		'	¦;	138 97	j	15
Boots and shoesBarbed wire fence				385 77		30
				155		1
Hardware and foundry work	ļ	1	! !	' 89		8
work Franite monumental work		· · · · · · · · · · · · · · · · · · ·		58 26		ļ
teady-made clothing				20		•
(nitting.			,	33	·	:
tonecutting. rison duties.			, 	76 267	22	2
Bouthern Penitentiary, at Chester At worκ on new prison buildings.	432	6	438	432 432	j	4
State Reform School, at Pontiac.	178		178	178		1
Shoemaking Sailoring				62 13		
hair cane seating				55 48		į
INDIANA.	i		1,231	905		9
Northern Prison, at Michigan City	605		605	495		49
Cooperage, carriages, sleighs and wagons				125		15
Chairs	1			205	1	20

^{*}No convict labor.

				,		
Kind of Work Done in Penal In- stitutions of the United States, in which Convict Labor is Em-	Conv	ricts in Pr	ison.	Con	victs at W	ork.
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
INDIANA (Northern Prison) — Continued.						
Boots and shoesKnitting	 			60		60
Knitting				25 50		2! 50
Cigars Wire and agricultural tools				30		30
				500		500
_ville				165		16
Neuralt attention				30 20		34 24 24 24
rvetal metal hella				25		2
state Prison (South) at Jefferson- ville shelf hardware Wrought strap hinges rystal metal bells Jarriage bolts Edge tools		ene	606	25		2
	1	020	020		·	
Kallable iron				35		3
Cooperage		- <i></i>		50 25		5
Boots and shoes			[]	125		2 12
	i		700		57	76
IOWA		57	790	712		
tate Penitentiary, at Ft.Madison 'arming tools Soots and shoes 'hairs	388	4	392	367 131	4	37 13
Roots and shoes				91		9
hairs.	·			96		90
rison duties				49	4	55
Additional Penitentiary, at Ana- mosa	204		204	204 204		20- 20-
			104	i		
tate Reform School, at Eldora	141	53	194	141 141	53	19- 14
sewing and prison duties				141	53	5
	1		F00	F00	1	59
KANSAS	588	5	593	588	5	
state Penitentiary, at Lansing. Farm and spring wagons. Farriages and buggles. Hones. Harnesses. Identify and shoes for prison use Blacksmithing. Farpentering. Itone quarrying. Itone masons. Laborers and prison duties.	588	5	593	588 237 44	5	59 23
hoog				34		4 3
Tarnesses				5		
Stonecutting				25		2
clothing and shoes for prison use				20		2
Slacksm thing	¦			6		
tone quarrying				45		2 2 2 4 1
tone masons				10		ī
aborers and prison duties				156	5	16
KENTUCKY	1, 187	79	1,266	1, 149	61	1,210
tate Penitentiary, at Frankfort	982	41	1,023	982	41	1,02
hairs			·	60 16		6 1
Connering				20		2
Blacksmithing				14		Ĩ.
Wagonmaking				8		
Daries Aarpenters Coopering Slacksmithing Wagonmaking Hemp manufacture Prison duties		· · · · · · · · · · · · · · · · · · ·		683 181	37 4	72 18
	1		1		1	
House of Refuge, at Louisville	205	38	243	167	20	18
Shoes. Chair cane seating				12 75		1: 7: 3:
Rasketmaking				30		. 80
				20		9.
arming and gardening			1		. 20	2 3
Farming and gardening Bewing						
Farming and gardening lewing Prison duties				30		31
Farming and gardening Jewing Prison duties LOUISIANA		38	589	30 551	38	
	551	38	589	551	1 1	589
Prison auties	551 551	38 38	- 	!	38 38	

ind of Work Done in Penal Institutions of the United States, in which Convict Labor is Em-	Con	victs in Pr	ison.	Convicts at Work.		
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total
MAINE	408	22	430	339	11	3
tate Prison, at Thomaston	214	3	217	214 93	3	2
arnesses	. .			49		
oots and shoes	· · · · · · · ·			14 6	• • • • • • • • • • • • • • • • • • • •	
ailors. rison duties	· · · · · · · · · · · · · · · · · · ·			52	3	
umberland county jail, at Port-	85	9	94	49	7	
nner soles, shoe counters and heels.	ω, 	-		49	7 :	
	30	¦ 2	32	25	1	
tate's Jail, at Auburnnner soles for shoes, pastework.		.		25	1	
enobscotcounty jail, at Bangor.	42	6	48	. 21 . 21		
ennebeck county jail, at Augusta oots and shoes	37	2	39	30 30	·	
		100		•	707	
MARYLAND	1,070 729	162	1, 232 7 783	895 729	121	1,0
tate Penitentiary, at Baltimore	149		100	328		•
hoemaking toves and hollow ware				114]
hirts and overalls for export	• • • • • • • •	-,	• • • • • • • • • • • • • • • • • • • •	160 22	,	1
arble work for furniture hirts and overalls for export eady-made clothing					. 41	
rison duties	· · · · · · · · · · · ·			105	13	3
ity jail, at Baltimore	245	40	285	130	30	1
arpet weavingrison duties	· · · · · · · · · · · ·			52 78	10 20	
ouse of Correction, Jessup's	96	68	164	36 36	37 37	
MASSACHUSETTS	3, 655	839	4, 494	2, 625	697	3, 3
ouse of Correction, at So. Boston	455	51	506	455	51	į
lothinglippers	• • • • • • • • • •			289 32		2
rison duties				134	51	1
louse of Correction and Jail, at		1			1	9
East Cambridge	272	14	286	272 183	14	1
rison duties	•••••			89	8	
ouse of Correction and Jail, at	~	۱ م		F1	!	
Dedham hair cane seating	81	6	87	51 51		
uffolk county jail, at Boston	56	12	68	25	7	
rison duties				25	7	
louse of Industry, at Boston	476	197	673	118 63	197	:
rison duties		·,·		55	197	2
ouse of Reformation, at Boston.	147		172	14 14		
tata Warkhayaa at Bridgematar	160	eı i	221	129	25	1
hair cane seating		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	68 7	•••••	
hair cane seating arnesses twork on farm rison duties.				50		
rison duties		.,		4	25	
ounty jail, at Lowell	32	10	42	:	1	

Kind of Work Done in Penal In- stitutions of the United States, in which Convict Labor is Em-	Conv	icts in P	rison.	Con	ork.	
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
MASSACHUSETTS—Continued:						
Reformatory Prison for Women, at Sherborn Shirtmaking Knitting socks and mittens, by machine. Laundry work		371	971		345 51 64 64	345 51 64 64
Seamstresses Prison duties					42 124	42 124
House of Correction and Jail, at New Bedford	116	22	138	68 68		68 68
County jail, at Taunton	52	5	57			•••••
House of Correction and Jail, at Lawrence Shoes. Prison duties	197	28	225	125 95 30	28 28	153 95 58
County jail, at Salem	52	2	54			
House of Correction, at Ipswich. Leather. Prison duties.	70	10	80	70 44 26	10 10	80 44 36
County jail, at Newburyport	18		18	<i>:</i>		•••••
House of Correction and Jail, at Worcester. Chair cane seating Prison duties.	134	7	141	134 95 39	7	141 95 46
House of Correction and Jail, at Northampton	23	2	25	18 18		18 18
House of Correction and Jail, at Springfield. Harnesses.	108	4	112	101 101	1 1	102 102
House of Correction and Jail, at Pittsfield	86	4	90	86 72 14	4	90 72 18
House of Correction and Jail, at Fitchburg Chair cane seating Prison duties	59		59	59 36 23		59 36 23
House of Correction and Jail, at Plymouth	30	1	31	19 19	1 1	20 20
House of Correction and Jail, at Greenfield. Cair cane seating. Prison duties.	28	4	32	28 22 6	4	32 22 10
State Prison, at Concord	758		758	613 226 . 240 120 16		613 226 240 120 16
Harnesses				iĭ		ii
Barnstable county jail, at Barnstable	17	3	20	17 17	3 3	20 20
Dukes county jail, at Edgartown.	5		5	l		

Kind of Work Done in Penal In- stitutions of the United States in which Convict Labor is Em-	Conv	ricts in Pi	ison.	Con	ork.	
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
MASSACHUSETTS—Continued.						
Jantucket County Jail, at Nan- tucket						•••••
tate Reform School at Westbor-			. 1			-
ough	223		223	223		25
'armin <i>o</i>			11	69		
hair cane-seating.	·			65		
		• • • • • • • • • • • • • • • • • • •	[j	59		
AICHIGAN				1,626	95	1,6
tate Prison at Jackson. coperage jitchforks, rakes, hoes, etc. igars.	787	3	790	733		7
Ooperage		· · · · · · · · · · · · · · · · · · ·	[i]	59 181		1
ligars.					,	-
vagons, neavy						1
hoes			; <u>-</u> ;,	65 48		
umpers in above shops	:			íĕ		
Broomsumpers in above shops Prison duties.				178	,	1
state Reform School at Lansing	1	1	318	318	:	3
hairs	1		i			2
hoes				4		_
hoes 'ailoring 'arming.	¦		¦	20 35		
tate House of Correction at Ionia Boots and shoes	242	1 	242	143	'	1
	Į.	1	1 1	140		•
Iouse of Correction at Detroit	332	95	427	332		4
Iouse of Correction at Detroit Chairs and bedsteads Prison duties				300 32		3
IINNESOTA	331	12	343	241	9	2
tate Prison at Stillwater	235	3	238	215	3.	2
hreshing machines		١		140	·	Ī
Barrels.				20		
ashes, doors and blinds rison duties				35		
tate Reform School at St. Paul.	96	9	105	26	6	
tate Reform School at St. Paul insmithing	١			-8		
arpenters oys and notions	- 	¦		.3		
eamstresses			 		6	
IISSISSIPPI	1,075	25	1, 100	1,075	25	1,
tate Penitentiary at Jackson	1,075	25	1, 100	1,075	25	1,
hoe shop				15 10		
arpenter shop				8		
ailor shop				10		
lacksmith shop	!		<u>-</u>	8		
aint chan				J		
aint shop. t work on farms, railroads and	!		i it		18	1,0
aint shop. t work on farms, railroads and levees rison duties.				19	181	
rison duties			1	19 1, 149		1.2
rison duties	1,470	151	1,621	1, 149	98	-,-
rison duties	1,470	151	1,621	1,149 950 364	98	ç
rison duties	1,470	151	1,621	1, 149 950 364 151	98	
hoe shop. Vagon shop Arpenter shop. Salor	1,470	151	1,621	1, 149 950 364 151 180	98	1,2 9 1

Kind of Work Done in Penal In- stitutions of the United States in which Convict Labor is Em-	Conv	icts in Pr	ison.	Convicts at Work.		
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
MISSOURI—Continued.						
City Workhouse at St. Louis	205	100	305	199 62 40	98 78	297 140 40
Making streetsPrison duties				80 17	20	80 37
NEBRASKA		-		239	3	242
State Penitentiary at Lincoln Boots and shoes Wagons Clothing. Cigars Knitting. Laundry work. At work on farms Stone cutting.	247	3	250	239 65 35		242 65
wagons. Clothing				32		65 35 32
Cigars				26 28		26 28 19
Laundry work.				16 12	3	19 12
Stone cutting.				25		25
NEVADA				142		142
State Prison at Carson City	142		142	142 44		142
Boots and shoes. Quarrying and stone cutting. Prison duties				37		44 37
		l	1 11	61		61
NEW HAMPSHIRE		20	297	256	15	271
State Prison at Concord	174	5	179	153 153		153 153
State Reform School at Manchester	100	15	118	103	15	118
Chair cane-seating. Shoemaking. Farming. Prison duties.	103			78		78
ShoemakingFarming.				10		2 10
Prison duties				13	15	28
NEW JERSEY	• •		1,451	756	82	838
State Prison at Trenton	774	37	811	304 304		3 04 3 04
Hudson County Jail and Penitentiary at Jersey City	212	78	290	106		184
tiary at Jersey City Quarrying and breaking stone Prison duties				106	78	106 78
Essex County Penitentiary at	1					
Caldwell. Breaking stone. Prison duties.	69	4	78	69 49	4	73 49
Prison duties				20	4	24
State Reform School at Jamesb'rg Sewing, laundry and farm work	277		277	277 277		277 277
NEW YORK	1	i .	1	6,387	654	7,041
Sing Sing Prison at Sing Sing	1,631		1,631	1,425		1,425
StovesShoes				1,000 300		1,000 300
Laundry work				125		125
Auburn Prison at Auburn	1,099		1,099			876
Saddlery hardware				114		313 114
Axles				207 188	/	207
Auburn Prison at Auburn				54		188 54
Clinton Prison at Dannemora				320 320		320 320

ind of Work Done in Penal In- stitutions of the United States in which Convict Labor is Em-	Conv	Convicts in Prison.			Convicts at Work.		
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total	
NEW YORK-Continued.]						
eformatory Prison at Elmira	425	l	425	425		4	
rnehoe	1	l .		275		2	
ollow ware	¦			50			
ollow ware ailors rison duties							
	ř.	1	1 1	640	45	6	
enitentiary at Albanyhoes	700		750	582		5	
rusheshair cane-seating				33			
				25	· -1		
enitentiary at Buffalo addlery hardwarerison duties	212	70	282	212	70	2	
addlery hardware		•••••		184 28	40 30	2	
	1	('	1	i		
enitentiary at Brooklynoots and shoes	594	122	716	384 384		4	
enitentiary, Blackwell's Island, New York City. arpenters and coopers, arriage trimmers and painters. hoemakers. room and brush makers. ailors. lacksmiths lumbers and tinsmiths tone cutters.			i				
New York City	706	163	869	677	143	8	
arpenters and coopers				30			
arriage trimmers and painters				60			
room and brush makers				16			
Bilors				17 35			
lumbers and tinsmiths				17			
tone cutters							
rick and stone masons				20			
uilding sea-wall, quarrying and	i						
grading				325	78	8	
nitting					20		
rick and stone masons. ardeners. uilding sea-wall, quarrying and grading. ewing. nitting.				50	45		
enitentiary at Syracuseaddlery hardwareoltsaper boxesrison duties	192	33	225	192	33	2	
addlery hardware		¦		130	4	1	
oits aner hoxes	·····		!	53	10		
rison duties				9	îi		
				165	49	9	
enitentiary at Rochester hoes rooms ooden ware	194	40	200	100		í	
rooms				25			
rison duties				15 25	43		
					10		
ouse of Refuge at Randall's Island, New York City tockings	610	145	757	612	145	7	
tockings	012	140	707	366			
lothing. Tire cloth.				130	60	1	
rison duties				41 75	85	1	
estern House of Refuge at Roch							
estern House of Refuge at Roch- ester rushmaking	459	133	592	459		ŧ	
rushmaking				56	j		
hair flag-seating				93			
osiery knitting.		¦	:	30			
diloring	ļ			26		1	
rushmaking hair cane-seating. hair flag-seating osiery knitting siloring noemaking rison duties	 	· · · · · · · · · · · · · · · · · · ·		73	133	2	
NORTH CAROTINA	1 000		1 000	1,028	' 1	1,0	
ate Penitentiary at Raleigh	1,028	54	1,082	1,028	54	1,0	
t work on railroads				737 51	30	7	
L A Addian ab		1		51			
hoe and tailor shops Yeaving prison stripes				1	19		
twork on railroads. twork on railroads. two and tailor shops. eaving prison stripes. one work. rick yard rison duties.				117		1	

Kind of Work Done in Penal In- stitutions of the United States, in which Convict Labor is Em-	Conv	icts in P	rison.	Convicts at Wor		
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
оно	2, 204	1	_,	2,044	210	2, 254
State Penitentiary at Columbus. Saddlery hardware. Agricultural implements. Carriage wood-work. Carpenters' tools Chairs. Bolts, nuts, etc. Cigars. Clothing. Car-wheels, Stoves and hollow ware Coopers Laundry work Prison duties.	1,487	32	1,519	1,444 270	32	1,476 270
Agricultural implements				120		120
Carriage wood-work		•••••		120		120
Chaira				36		, 36
Bolts, nuts, etc				80		, 36 80
Cigars.		· · · · · ·		60 89	22	60
Car-wheels, Stoves and hollow			********	240	22	111 240
Coopers				45		45
Laundry work				4	9	13
Prison duties			•••••	325	1	326
Workhouse and House of Refuge, Cleveland	276			276	57	333 333
Brushmaking				276	57	333
Workhouse at Cincinnati	292	77	369	180	75	255
Workhouse at Cincinnati Stone quarrying Sewing room Prison duties				150		150
Sewing room					40	40
Prison duties				30	35	65
House of Refuge at Cincinnati Shoes. Wire work. Brushes Tailor shop. Printing office Sewing room. Prison duties	149	48	197	144	46	190
Shoes				20		20 52
Wire work				52 46		52 46
Pailor shop				40		
Printing office				5		ŝ
Sewing room		• • • • • • • • • •		17	20 26	4 5 20 43
OREGON			189		20	43 55
	l			55		
State Penitentiary, at Salem	109		109	10		55 10
Collarmaking, horse				15		15
Sashes and doors		• • • • • • • • • • • • • • • • • • • •		10		10
anning. Ollarmaking, horse. Sashes and doors. Chairs. Brickyard				10		10 10
PENNSYLVANIA	,		1 1	2,994	285	3,279
Eastern Penitentiary at Philadel- phia	1,067	12	1,079	767	20	mano
hoog	2,000			363	12	779 363
Uigars				44		44
Chairs				102		102
Stockingmaking	• • • • • • • • • • • • • • • • • • • •			137		137
Weaving						33 58 12
Ugars Uhairs Canework Stockingmaking. Weaving Sewing Picking wool	;			30	12	12 30
House of Refuge at Philadelphia.	407	131	53 8	303 62	57	360
Stockingknitting by machinery.				102	57	62 159
Brushes. Stockingknitting by machinery Chair cane-seating. Covering demijohns and basket-				28		28
making				14 12		14 12
Match-boxes					• • • • • • • • • • • • • • • • • • • •	12 95
Covering demilonins and basket- making Pocket-books Match-boxes Toy watches				51		25 51
	• • • • • • • • • • • • • • • • • • • •	•••••		9	••••	9
Philadelphia County Jail, at Philadelphia	336	3 8	374	118	30	148
delphia Shoes				74		74
Weaving Painting Failoring Bakers		• • • • • • • • • • • • • • • • • • • •	·····	4 3		4
Tailoring				3		4 3 3 7
Bakers				7		7

and of Work Done in Penal In- stitutions in the United States, in which Convict Labor is Em-	Conv	icts in Pr	ison.	Convicts at Work.			
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.	
PENNSYLVANIA—Continued.				1			
ooks. rison duties.				6 21	30	Ę	
Iouse of Correction, Philadelphia. hoemaking. arpentering ailoring Blacksmithing hasmithing aundry and washroom arming tonequarrying ultivating tobacco faking gas	669	191	860	320	42	36	
hoemaking				21		2	
arpentering			· • • • • • • • • • • • • • • • • • • •	5 9			
lacksmithing				6			
insmithing	• • • • • • • • • • • • • • • • • • • •			3	42		
aundry and washroom		· · · · · · · · · · · · · · · · · · ·		155		1.	
tonequarrying				80	ا ـ ـ ـ ـ ـ ـ ـ ـ ا		
ultivating tobacco				28			
taking gas				13			
Vestern Penitentiary at Aleghany	756	1 11	767	648	11	6	
hoes				312		3	
roomsinamithing				25		;	
icone	1	l	1 1	20			
hairs				106		1	
eaving.			-	18 20	•••••		
eamstresses				20	11		
kars. /eaving. .achinists and blacksmiths. .eamstresses. t work on new prison.				80			
Jorlahougo of Aloghany	990	077	400	339	87	4	
oopering oil barrels	339	87	420	200		2	
oopering, lead kegs				25		-	
aundrywork					9		
orkhouse at Aleghanyoopering, oil barrelsoopering, lead kegs			•••••	114	40 38	1	
tate Reform School at Morganza	270	40	310	270	40	3	
arminghoomuking				150 10	10	1	
alloring				liŏ		_	
tate Reform School at Morganza arming hoemaking. alloring aundrywork. rison duties.	¦				15		
				100	13	1	
erks County Jail at Reading arpetweaving hoemaking ewing carpet-rags	60	1	61	60	1		
arpetweaving				24			
hoemaking				14 22	·····i		
				22	1		
elaware County Jail at Media arpetweavinghair cane-seating	32		32	32			
arpetweaving				29			
rooms				î			
			i				
ancaster County Jail, Lancaster.	106	9	115	39	4		
arpetweaving				9			
rooms				4			
igars				15			
askets				3			
ancaster County Jan, Lancaster. argetweaving. aggingweaving rooms. gars. hoes askets. lothing.				2	4		
			1				
ehigh County Jail at Allentown. hoes			55	38 38			
ontgomery County Jail at Mor-				1			
ristownhoes	25		25	16			
noes				16			
orthampton County Jail at	;						
ormanipon County Jan at Easton	44	1	45	44	1		
roomsarnetweaving				14			
ag and chain spooling				86			
hoemaking				ž			
utting and sewing carpet rags	1	1		14	1 1		

Kind of Work Done in Penal In- stitutions of the United States in which Convict Labor is Em-	Conv	ricts in Pı	rison.	Con	victs at W	ork.
in which Convict Labor is Employed.	Male.	Female.	Total.	Male.	Female.	Total.
RHODE ISLAND	293	75	368	293	75	368
State Prison at Providence	87	5		87 45	5	92 45
Hats				22		45 22
Hats. Wire. Prison dutiss.				9		-9 16
	l			111	5	10
Workhouse and House of Correction at Cranston Farming Stonequarrying. Laundrywork. Sewing Prison dûties.	117	63	180	117	63	180
Farming				78 39		78 39
Taundrywork				39	14	39 14
Sewing					30	30
Prison duties				• • • • • • • • • • • • • • • • • • • •	19	19
Providence County Jail at Providence		7	96	89	7	96
Hats				25		96 25
Shoes				7		7 3
WirePrison duties				54	7	61
SOUTH CAROLINA,	710	16	726	710	16	726
State Penitentiary at Columbia	710	16	726	710	16	726
Brickmakers and masons			••••••	65 15		65 15
Stoneoutters Shoemakers Carpenters Blacksmiths Weavers and tailors Brooms				16		16
Carpenters.				16		16
Blacksmiths				9 30		9 30
Brooms		• • • • • • • • • • • • • • • • • • • •		10		30 10
Farmers, laborers, etc,				549	16	565
TENNESSEE State Penitentiary at Nashville At work in coal mines Farming Wagons Hollow ware Furniture Prison duties	1, 167 1, 167	33 33	1,200 1,200	1, 167 1, 167	33 33	1,200 1,200
At work in coal mines				384		384
Wagong				149 305		149 305
Hollow ware.				85		85
Furniture				125 119	33	125 152
		1	i I		• .	
TEXAS	1,718	ļ	-,	1,718	20	1,738
State Penitentiary, at Huntsville. At work on railroads	1,718		1,738	1,718 182	20	1,738 182
		• • • • • • • • • • • • • • • • • • • •		299 18		299 18
Sugar and cotton plantations				916		916
Saw-mill Sugar and cotton plantations Prison duties: in wheelwright, blacksmith, chair, paint, shoe, broom and cabinet shops, cot-						
broom and cabinet shops, cot- ton factory, within the walls, and laborers.			•••••	303	20	323
VERMONT	250	21	271	250	21	271
State Prison, at Windsor	150	2	152	150	2	152
Shoes. Prison duties				125 25	2	125 27
State Reform School, at Vergennes	100	19	110	100	10	110
Farming	100	19	119	100	19	119 12
Farming. Chair cane seating.				71		71
Shoemaking Prison duties				2 15	19	2 34
VIRGINIA		80	1, 016	790	28	818
State Penitentiary, at Richmond			· ·	790		818
Shoes	330		1,016	100	28	, 100 115
Coopers and carpenters				115		115

VIRGINIA—Continued. 15 Wheelwrights and blacksmiths. 15 Tobacco factory. 54 Weaving. 6 On public works. 500 WEST VIRGINIA. 238 5 243 228 State Penitentiary, at Moundsv'le. 238 5 243 238 Wagons. 75 60 75 <td< th=""><th></th><th>Total. 15 54 50 245 245 245 245 245 245 245 245 245 245</th></td<>		Total. 15 54 50 245 245 245 245 245 245 245 245 245 245
Wheelwrights and blacksmiths 15 Tobacco factory 54 Weaving 6 On public works 500 WEST VIRGINIA 238 5 Wagons 75 Wajos 60 Brooms 26 Cigars 39 Prison duties 38 WISCONSIN 863 22 State Prison, at Waupun 316 8 324 Boots and shoes 231 100 Prison duties 19 14 133 119 Industrial School, at Waukesha 428 428 428 Boots and shoes 100 100 100 Prison duties 38 140 140 Knitting by machinery 38 100 Rnitting by hand 100 100	5 5 5	54 34 500 243 243
WEST VIRGINIA 238 5 243 228 State Penitentiary, at Moundsv'le Wagons 75 238 75 Walps 60 75 60 Brooms 26 26 26 Cigars 39 39 39 Prison duties 38 22 885 778 State Prison, at Waupun 316 8 324 231 Boots and shoes 231 19 14 133 119 Chairs, wood seat 19 14 133 100 19 Industrial School, at Waukesha 428 428 428 428 428 Boots and shoes 140<	5 5 5	54 34 500 243
WEST VIRGINIA 238 5 243 238 State Penitentiary, at Moundsv'le Wagons 75 238 75 Wajons 75 60 75 Wajons 26 60 26 Brooms 26 26 26 Cigars 39 39 39 Prison duties 38 22 885 778 State Prison, at Waupun 316 8 324 231 Boots and shoes 231 19 14 133 119 Chairs, wood seat 19 14 133 119 100 19 Industrial School, at Waukesha 428	5	500 243 243
State Penitentiary, at Moundsv'le 238 5 243 238	5	24
Wagons. 75 Whips 60 Brooms 26 Sigars 39 Prison duties. 38 WISCONSIN 863 22 885 778 State Prison, at Waupun 316 8 324 231 Boots and shoes 231 321 321 321 321 322 323 322 323 322 323 322 323 322 323 322 323 322 323 322 323 322 323 323 324 2231 323 324 323 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324 323 324<	5	24 7. 6 2
WISCONSIN 863 22 885 778 State Prison, at Waupun 316 8 324 231 Goots and shoes 231 231 231 House of Correction, at Milwaukee 119 14 133 119 hairs, wood seat 100 19 rison duties 19 19 industrial School, at Waukesha 428 428 30ots and shoes 140 Knitting by machinery 38 Knitting by hand 100	-i	2
WISCONSIN 863 22 885 778 Itate Prison, at Waupun 316 8 324 231 Goots and shoes 231 231 231 231 House of Correction, at Milwaukee 119 14 133 119 133 119 14 133 119 14 <t< td=""><td>-i</td><td>9</td></t<>	-i	9
WISCONSIN 863 22 885 778 State Prison, at Waupun 316 8 324 231 Boots and shoes 231 231 231 231 House of Correction, at Milwaukee 119 14 133 119 133 119 14 133 119 14 <t< td=""><td>-i</td><td>ب</td></t<>	-i	ب
State Prison, at Waupun. 316 8 324 231 300ts and shoes 231 319	14	-
House of Correction, at Milwaukee	12	79
Industrial School, at Waukesha		23 23
ndustrial School, at Waukesha 428 428 428 Soots and shoes 140 Initting by machinery 38 Initting by hand 100	14	13
Industrial School, at Waukesha	14	10 3
Boots and shoes. 140 Initing by machinery 38 Initing by hand 100		42
Knitting by machinery		14
Initing by hand 100 Brooms (in winter), stone-cutting (in summer) 18 18 14 14 15 16 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		
(in summer)		10
(aunit) # of #		1
Farming and gardening 43		4
		7
THE TERRITORIES 101 2 103 84		. 8
Arizona		2
Arizona 23 1 24 23 Arison at Tucson 23 1 24 23 Blacksmiths, masons, and laborers on new prison 23 23		2
		_
Dakota		
daho		
Montana 31 1 32 14	l	1
Prison at Helena 31 1 32 14		ī
Brickmaking 10		1
fontana 31 1 32 14 rison at Helena 31 1 32 14 3rickmaking 10 10 Farming 2 Carpenters 2		_
	İ	
New Mexico. Convicts sent to Nebraska State Penitentiary, at Lincoln.		
1 1 1 1		
Jtah		
Wyoming		
Vashington 47 47 47 Penitentiary, at Olympia 47 47 47		4
Coopering 1 1 1 16		1
t work in coal mine 10 t work in brick yard 17		
Prison duties 4		i

RECAPITULATION.

	Convicts in Prison.		Convicts at Work.			
States.	Male.	Female.	Total.	Male.	Female.	Total.
UNITED STATES	44, 084	685	47, 769	37, 245	2,877	40, 122
labama	621	33	654	566	18	584
rkansas	508	13	521	508	13	521
alifornia.	1.571	ii	1.582	318		318
olorado	154	` <u>-ī</u>	155	154		154
Connecticut	590	63	653	563	55	618
Oelaware	96	8	104	000		020
lorida	138	3	141	138	3	141
leorgia.	1, 193	34	1, 227	1, 193	34	1, 22
	2, 031	28	2, 059	$\frac{1}{2}, \frac{1}{031}$	22	2,053
llinois	1, 231	20	1.231	995	24	99
ndiana						
owa.	733	57	790	712	57	769
ansas	588	_5	593	588	.5	593
entucky	1,187	79	1,266	1, 149	61	1, 21
ouisiana	551	38	589	551	38	589
[aine	408	22	430	339	11	356
faryland	1,070	162	1,232	895	121	1,010
fassachusetts	3,655	839	4, 494	2,625	697	3,32
lichigan	1, 679	98	1,777	1,526	95	1.62
Innesota	331	12	343	241	9	250
fississippi	1.075	25	1, 100	1,075	25	1.10
Iissouri	1.470	151	1.621	1, 149	98	1, 24
ebraska	247	3	250	239	3	. 24
levada	142	9	142	142	1	149
lew Hampshire	277	20	297	256	15	27
lew Jersey	1,332	119	1, 451	756	82	83
	7, 343	798	8, 141	6, 387	654	7.04
lew York Jorth Carolina.	1,028	54	1.082	1, 028	54	1.08
orm caronna		214	2,418	2,044	210	2. 25
)hio	2,204	214			210	
regon	189		189	55		5
ennsylvania	4, 166	521	4,687	2,994	285	3, 27
hode Island	293	75	368	293	75	. 368
outh Carolina	710	16	726	710	16	. 720
ennessee	1, 167	33	1,200	1, 167	33	1,200
exas	1,718	20	1,738	1,718	20	1,738
ermont.	250	21	271	250	21	27
irginia	936	. 80	1,016	790	28	818
Vest Virginia	238	5	243	238	5	243
Visconsin	863	22	885	778	14	792
he Territories.	101	9	103	84		84

Table II.—Convicts at Work—By Industries.

ind of Work Done in Penal Institutions of the United States,		Convicts at Work.		
in which Convict Labor is Employed.	Male.	Female.	Total.	
AGRICTURAL IMPLEMENTS	602		602	
Agricultural implements	432		432	
Agricultural implements Apricultural implements and wire	30 140		30 140	
Boots and Shoes.	6,530	51	6, 581	
Boots and shoes	2,753	43	2,796	
Boot stitching Shoemaking	30 663		30 663	
Shoes.	2, 855		2,855	
Inner soles, shoe counters and heels.	49	7	56	
Inner soles for shoes—paste work	25 32	1	26 32	
Rottoming shoes	32 72		32 72	
Slippers Bottoming shoesShoe and tailor shops	51		51	
Carpets	163	12	175	
Carpet rags, cutting and sewing	14	1	15	
Rag and chain spooling.	_6		6	
Rag and chain spooling. Sewing carpet rags. Carpet weaving	22 721	10	23 131	
Carriages and Wagons	1, 251		1,251	
Blacksmiths and wheelwrights.	15		15	
Carriages and buggies	137		137	
Farm and spring wagons Carriages, sleighs wagons and cooperage	804		804 125	
Sleighs.	125 30		30	
Carriage trimmers and and painters	12		12	
Sleighs Carriage trimmers and and painters Carriage wood-work Paint shop	120 8		120 8	
CIGARS AND TOBACCO.	510		510	
Cigars	456		456	
Cigars Tobacco factory	54		54	
CLOTHING	1,532	730	2,262	
CLOTHING	562	127	689	
SeamstressesTailoring	137	62 19	62 156	
Sewing	197	200	200	
Sewing Suits and overalls, for export	22		22	
Overalls. Shirt making. Clothing and shoes, for prison use.	36	37	73	
Clothing and shoes for prison use	20	51	51 20	
Sewing and knitting.		40	40	
Sewing and knitting. Sewing and prison duties		53	53	
Knitting Stockings	356 399	141	497 399	
FURNITURE.	2,763	121	2,884	
Furniture	125		125	
Redsteads	153		, 153	
Chairs and bedsteads	300	75	375 81	
Cabinet making and furniture	81 934	45	979	
Chair flag seating	35	10	35	
Chair making	979		979	

Convicts at Work—By Industries—Continued.

Kind of Work Done in Penal Institutions of the United States		Convicts at Work.		
Kind of Work Done in Penal Institutions of the United States, in which Convict Labor is Employed.	Male.	Female.	Total.	
FURNITURE—Continued.		.		
Chair cane seating and mattress making	14	1	18	
Chairs, rustic.	5			
Cane work	137		13	
Iron Goods	3, 452	52	3,50	
Bolts, nuts, etc. Suddlery hardware. Hardware and foundry work.	133		14	
Saddlery hardware	698 89	44	74 8	
Shelf hardware	165		16	
Wrought strap hinges	30		3	
Mardware and foundry work Shelf hardware Wrought strap hinges Crystal metal bells Carriage bolts Blacksmiths.	20 25		2 2 8 2 5 3 6 7 4	
Blacksmiths	81		8	
Edge tools.	25 55		2	
Tron malleable	35		3	
Edge tools. Carpenters' tools. Iron, malleable. Wire-working.	62		6	
Darbed wire lence	77 41		7	
Wire cloth	12		i	
Wire Machinists and blacksmiths	20		2	
A X 168	207 240		20 24	
Car-wheels, stoves and hollow ware	1, 437		1, 43	
FARMERS AND LABORERS	10, 467	140	10,60	
At work on new prison	739	1 1	73	
Coal mines.	754 1,899	28	75 1, 92	
Plantations and brick yards. Turpentine farm laborers.	508		1, 52	
Turpentine farm laborers	131		13	
Sugar and cotton plantations	28 916		2 91	
Cultivating tobacco Sugar and cotton plantations Farms, railroads and levees. Railroads, farms and mines.	1,000		1 00	
Railroads, farms and mines	1, 193	34 30	1, 22 1, 50	
Railroads and levees	1,470 299	30	29	
Wood chopping Hemp manufacturing.	683	37	72	
Laborers and prison duties.	31 6	5	3	
Laborers and prison duties.	156	5	16	
Lumpers in shops Teamsters. On public works Picking hair.	16		1	
On public works	500		50	
Picking hair	11		1	
Picking wool. Road making.	30 95		3 9.	
i i			-	
LEATHER AND LEATHER GOODS	786	1	78	
Harnesses	270	1	• 271 18	
Harnesses, collars and whins	18 180		18	
Horse collars	69		6	
HaitersHarnesses, collars and whipsHarnesses and saddlery	· 123		12 6	
Whips. Leather tanning. Pocket books	54		5- 15	
Pocket books.	12		13	
Stone.	1,609	78	1,68	
Breaking stone for macadamizing	217	78	29	
Stone quarrying. Quarrying, building sea wall and grading. Stone cutters.	401		40 32	
Stone cutters	325 305		30	
Stone-work	117		11'	
Marble furniture and mantel-work. Granite monumental work	218 26		218 20	
Wooden Goods	1, 120		1, 120	
	33		3	
Basket-makingBasket-making and covering demijohns	14		14	
Booperage	590		590	

Convicts at Work-By Industries-Continued.

Kind of Work Done in Penal Institutions of the United States.	Convicts at Work.			
in which Convict Labor is Employed.		Female.	Total.	
Wooden Goods-Continued.				
Coopers and carpenters.			118	
Tubs and buckets			33	
Saddle trees. Sashes, doors and blinds.			176	
Sashes, doors and blinds	20		20	
Sashes and doors	10		10	
Sashes and blinds	81		81	
In saw mills			33	
Wooden ware	15		15	
Prison Duties.	3,507	1,423	4,930	
Bakers.	7			
	é			
Cooks	3.494	1.423	4, 917	
I HAUD GRADEMOU/	0, 252	1,420	7, 310	
Miscellaneous	2, 953	269	3, 222	
Brickmakers	107		107	
Brickmakers and masons	65		65	
Brick and stone masons	10		10	
Masons.	8		8	
Stone masons	10		10	
Brooms.	268		268	
Brushes	947	63	1,010	
Boxes, paper	. 	10	10	
Carpenters	63		63	
Carpenters and coopers	30		30	
Gas making			19	
Gilding	120		120	
Hats	593		593	
Laundry work	159	156	315	
Match boxes	25		25	
Printing	19		19	
Plumbers and tinsmiths	17		17	
Tinsmithing.	36		36	
Toy watches	51		51	
Toys and notions	15		15	
Weaving	86	28	114	
Weaving prison stripes	1	12	13	
Weaving bagging.	3 30		3 30	
Weavers and tailors. Sewing, laundry and farm work	277	•••••	277	

RECAPITULATION.

Industries.		Convicts at Work.			
		Females	Total.		
Agricultural implements Boots and shoes. Carpets. Carriages and wagons. Cigars and tobacco. Clothing. Furniture Iron goods. Farmers and laborers. Leather and leather goods. Stone Wooden goods. Prison duties.	163 1, 251 510 1, 532 2, 763 3, 452 10, 467 786 1, 609 1, 120 3, 507	730 121 52 140 1 78	602 6, 581 175 1, 251 510 2, 262 2, 884 3, 504 10, 607 787 1, 687 1, 120 4, 930		
Miscellaneous. Totals.	2, 953 37, 245		3, 222		

Table III.—Prison Industries by States, and Comparison with Free Labor.

States.	Males.	Females.	Total.	No. of persons employed in industry named in the States specified, according to U. S. census, 1870.
AGRICULTURAL IMPLEMENTS	602		602	8,080
Indiana Iowa Michigan Minnesota Ohio.	20 131 181 140 120		30 131 181 140 120	1, 268 552 969 167 5, 124
BOOTS AND SHOES	6,530	51	6,581	129,989
Colorado. Connecticut. Illinois. Indiana. Iowa. Kansas. Kentucky. Maine. Maryland. Massachusetts. Michigan. Mississippi. Missouri. Nebraska. Nevada. New Hampshire. New Jersey. New York. North Carolina. Ohio. Pennsylvania. Rhode Island. South Carolina. Vermont.	40 267 447 185 91 12 118 328 526 212 215 364 44 2 1,885 51 20 854 127 100	8 1 1 42	40 267 447 185 91 12 126 328 527 212 15 364 4 2 2 1,927 51 20 854 127 100	26 2, 417 4, 660 2, 702 1, 292 1, 292 1, 252 300 1, 150 2, 786 3, 228 54, 831 1, 24 40 3, 107 17, 501 318 6, 738 15, 799 409 131 751 850
Virginia	371		371	2,352
Carpets	163	12	175	2, 939
MarylandPennsylvania	52 111	10 2	62 113	71 2,868
CARRIAGES AND WAGONS	1, 251		1, 251	33, 153
Indiana Kansas Kentucky Maine Massachusetts Michigan Mississippi Nevada. New York	125 281 8 93 30 124 10 35		125 381 8 93 30 134 10 35	3, 325 242 1, 253 2, 914 2, 213 293 13 8, 784
Ohio	120		120	5, 094

Prison Industries—Continued.

		•		
STATES.	Males.	Females.	Total.	No of persons employed in industry named in the States specified, according to U. S. census, 1870.
CARRIAGES AND WAGONS-Continued.	1	1		
Pennsylvania. Tennessee Virginia. West Virginia.	8 305 15		8 305 15	6, 252 818 563
West Virginia.	75		15 75	243
CIGARS AND TOBACCO	510		510	22, 480
Illinois.	138		138	2,684
IndianaMichigan	50 52		50 52	817 1, 256
Nebraska	26		26	43
Ohio Pennsylvania	60 91		60 91	3,719 6,229
Virginia West Virginia.	54		54	7,534
West Virginia.	39		39	198
CLOTHING	1,532	730	2, 262	105, 157
Florida				
IllinoisIndiana	ı			
Kansas				
Kentucky	t .			
Maine Maryland Massachusetts Michigan	6 58	78	136	4,638 7,453
Massachusetts	289	157	446	10,837
Michigan	20		20	2,593
Minnesota	10	6 7	17	42
Mississippi Nebraska New Jersey New York	60		60	78
New Jersey		53	53 .	2,545
New YorkOhio	612 93	158 82	770 175	33, 493 11, 679
Pennsylvania	135	136	271	19,022
Pennsylvania		30	30	1,244 1,902
Wisconsin	138		138	1,902
FURNITURE	2,838	46	2,884	52, 167
California	81 189	i	81 190	319 932.
Illinois	55	1	55	2, 440
Indiana	205		205	3,206
Iowa	96 135		96 135	964 992
Kentucky Massachusetts	337		337	10, 259
	634		634	2,695
Missouri New Hampshire New York	231		231	2,074 1,377
New York	153	, 45	198	10,885
Ohio	36		36	6,519
Oregon	10 375		10 375	6.350
Pennsylvania Tennessee	125		125	494
Vermont	71		71	738
Wisconsin			100	1,863
Iron Goods	3, 452	52	3,504	104, 965
Colorado Connecticut Illinois	.3		_3	18
Uonnecticut	10 166		10 166	3, 795, 4, 067
Indiana	300		300	2,394
Kansas	6		6	123
Kentucky	14 114		14 114	3,906 3,033
mai yialiu	1 114	1	. 114	. 3,033

Prison Industries—Continued.

STATES.	Males.	Females.	Total.	No. of persons employed in industry named, in the States specified, according to U. S. census, 1870.
IRON GOODS-Continued.				
Mississippi New York Ohio Pennsylvania. Rhode Island South Carolina. Tennessee FARMERS AND LABORERS*	2,002 697 26 • 12 9 85	52	. 8 2,054 697 26 12 9 85	170 22, 244 14, 943 47, 134 1, 207 124 1, 807
	-	1	•	
Alabama Arizona Arizona Arkansas Connecticut Florida Georgia Illinois Iowa Kansas Kentucky Louisiana Massachusetts Michigan Montana Territory Mississippi Missouri Nebraska New Hampshire Nebraska New Hampshire North Carolina Pennsylvania Rhode Island South Carolina Tennessee Texas Vermont Virginia Washington Territory Wisconsin	551 23 568 568 133 1,198 492 345 156 703 551 119 20 737 443 78 549 1,397 12 1,397 12 1,397 12 1,397 12 1,397	18 34 5 37 20	569 23 508 508 133 1, 227 432 345 161 119 51 12 1, 000 300 767 443 78 565 558 1, 397 12 500 10 43	
LEATHER AND LEATHER GOODS	786	1	787	35, 689
California. Illinois. Kansas Maine Massachusetts Missouri. New York Oregon Pennsylvania. West Virginia.	123 97 5 49 181 180 54 25 12 60	i	123 97 5 49 182 180 54 25 12 60	955 2, 688 283 1, 505 6, 561 2, 118 11, 457 137 9, 486 499
STONE	1,609	78	1,687	26, 161
Colorado. Connecticut Illinois Kansas Maryland Massachusetts Missouri Nebraska New Jersey.	14 10 160 70 160 63 102 25 37	78	14 10 160 70 160 63 180 25 37	2, 051 2, 865 185 707 3, 295 1, 165 41

^{*} No census comparisons obtainable.

Prison Industries—Continued.

STATES. STONE—Continued.	Males.	Females.	Total.	No. of persons employed in industry named, in the States specified, according to U. S. census, 1870.
New York North Carolina. Ohio Pennsylvania. Rhode Island South Carolina.	412 117 150 80 39 15		412 117 150 80 39 15	6, 883 67 3, 280 3, 866 584 121
Wooden Goods	1, 220		1, 120	37,440
Alabama California Illinois. Indiana Kentucky Michigan Minnesota Missouri New York Ohio Oregon Pennsylvania Texas Virginia Washington Territory	15 114 155 50 59 40 151 15 45 10 242 18 115		15 114 155 50 59 40 151 15 45 10 242 18 115	79 662 3, 679 2, 907 555 3, 250 640 2, 501 9, 716 6, 234 127 489 68
* Prison Duties	3, 507	1,423	4,930	
Arkansas Colorado. Connecticut Illinois. Iowa Kentucky Louisiana Maine. Maryland Massachusetts Michigan Minesota Mississippi Missouri. Nevada. New Hampshire New Jersey. New York	67 31 315 49 211 52 183 521 210 35 19 17 61 13 20 350	13 54 22 4 4 38 33 468 20 3 18 20 3	13 67 387 387 215 58 216 989 230 58 27 37 61 28 102 697	
North Carolina. Ohio Pennsylvania Rhode Island Tennessee. Texas. Vermont West Virginia. Wisconsin. Washington Territory.	370 372 248 65 119 303 40 38 94 4	12 62 81 31 33 20 21 5	82 434 329 96- 152 323 61 43 108	

^{*} No census comparisons obtainable.

MISCELLANEOUS.

Industries and States.	Males.	Females.	Total.	No. of persons employed in industry named, in the States specified, according to U. S. census, 1870.
Brick-makers	107		107	244
Colorado. North Carolina. Montana Territory. Oregon. Washington Territory.	18 52 10 10 17		18 52 10 10 17	63 96 8 43 34
BRICK-MAKERS AND MASONS	65		65	38
South Carolina	65		65	38
BRICK AND STONE-MASONS	- 10		10	2, 104
Florida. New York.	2 8		2 8	2, 097
Masons	8		. 8	31
Colorado	8		8	31
STONE-MASONS	10		10	132
Kansas	10		10	132
Ввоомя	268		268	3,638
Maine Michigan Missouri New York Pennsylvania South Carolina West Virginia Wisconsin	21 48 30 41 74 10 26 18		21 48 30 41 74 10 26 18	27 95 202 3,026 205 3
Brushes	947	63	1,010	1,827
Massachusetts New York Ohio Pennsylvania	199 364 322 62	6 57	205 364 379 62	639 14 536 638
BOXES-PAPER		10	10	1,691
New York		10	10	1,691
Carpenters.	93		93	23,013
Colorado. Florida. Kansas. Kentucky. Minnesota. Mississippi. Montana Territory. New York. Pennsylvania.	4 3 6 16 3 8 2 30 5		4 3 6 16 3 8 2 30 5	83 295 807 1,036 676 321 20 8,806 10,538 431

Miscellaneous-Continued.

INDUSTRIES AND STATES.	Males.	Females.	Total.	No, of porwons om ployed in industry named, in the Mutae specified, according to U. S. consus, 1870
Gas-waking	13		13	1,533
Pennsylvania	13		13	1,533
GILDING	120		120	170
Massachusetts	120		120	170
HATS-WOOL	598		593	8,596
Massachusetts	226 320 47		226 326 47	3, 290 5, 267 29
LAUNDRY WORK.	159	156	315	17,303
Massachusetts Nebraska. New York Ohio. Pennsylvania. Bhode Island. Wisconsin.	16 125 4	9 66 14	64 19 125 13 66 14	1,656 113 9,678 2,796 2,276 474 310
MATCH BOXES	25		25	5,382
Pennsylvania	25		25	
Printing	19		19	5, 382
MassachusettsOhio	14 5		14 5	2,973 2,409
PLUMBERS AND TINSMITHS	17	}	17	967
New York	17		17	967
TINSMITHING	36	į	36	3,862
MinnesotaPennsylvania	8 28	[]	8 28	231 3,631
TOY WATCHES	51		51	137
Pennsylvania	51		51	137
Toys and Notions	15		15	
Minnesota	15		15	·
WEAVING	86	28	114	34,869
Pennsylvania	86	28	114	34,869
WEAVING PRISON STRIPES	1	12	13	1,702
North Carolina:	1	12	13	1,702
Weaving Bagging	3		3	·
Pennsylvania	3		3	·
Weavers and Tailors	30		30	1,176
South Carolina	30		30	1,176
Sewing, Laundry and Farm Work		277	277	ļ
New Jersey		277	277	1

RECAPITULATION.

Kind of Work Done in Penal Institutions of the United States in which Convict Labor is Employed.	Number of States in which convicts are employed in indus- try named	Number of convicts employed in the industry named in the United States	whole No. of persons employed in the industry named in those States in which that industry is carried on in prisons (United States census, 1870.	No. of persons employed in the industry named, in the United States, according to the U. S. census of 1870
Agricultural implements Boots and shoes Carpets Carriages and wagons Cigars and tobacco. Clothing Furniture Iron goods. *Farmers and laborers Leather and leather goods Stone Wooden goods. *Prison duties.	5 26 2 14 8 18 17 14 29 10	602 6,581 175 1,251 510 2,262 2,884 3,504 10,607 787 1,687 1,120 4,930	8, 080 129, 989 2, 939 33, 158 22, 480 105, 157 52, 167 104, 965 35, 689 26, 161 37, 440	36, 678 135, 889 7, 697 54, 128 47, 848 118, 375 57, 091 137, 545 59, 177 32, 277 54, 206
Brickmakers and masons Brickmakers and masons Brick and stonemasons Masons Stonemasons Brooms Brooms Brushes Boxes, paper Carpenters Gas-making Gilding. Hats. Laundry work *Match boxes Printing. Plumbers and tinsmiths Tinsmithing Toy watches. Toys and notions Weaving bagging. Weaving bagging. Weaving bagging. Weaving laundry and farm work. Aggregate.	1 1 1 1 1 10 1 1 1 2 1 2 1 1 1 1 1 1 1 1	107 65 10 80 10 268 1,010 93 120 \$593 315 25 19 17 36 114 13 33 30 277	244 58 2, 104 31 192 3, 638 1, 827 1, 691 23, 013 1, 533 17, 303 17, 303 5, 382 967 3, 862 137 4, 869 1, 702	43, 293 11, 043 5, 206 2, 425 4, 486 67, 864 8, 723 1, 534 16, 173 60, 906 30, 924 4, 783 25, 823 615 243, 731 textiles.
*Farmers and laborers		10,607		
*Prison duties Productive industries		4,930 24,585	666, 625	1,269,240
Totals		40, 122	666, 625	1,269,240
		·	•	

^{*} No census comparisons obtainable. § Wool hat makers. † Includes hat and cap makers. There are in the United States between 5,000 and 6,000 wool hat makers, doing work similar to that performed by the 593 convicts.

Table V-Kinds of Labor in Penal Institutions.

	CONVICTS AT WORK.				
STATES AND KINDS OF LABOR.	Males.	Females.	Total.		
Alabama	566	180	584		
SkilledUnskilled	15 5 51	18	15 5 6 9		
ARKANSAS	508	13	521		
Unskilled Prison duties	508	. 13	508 3		
California	318		18		
Skilled	318		318		
COLOBADO	154		154		
SkilledPrison duties	87 67		87 67		
CONNECTICUT	563	55	618		
Skilled Unskilled Prison duties	466 66 31	1 54	467 66 85		
Delaware					
FLORIDA	138	3	141		
Skilled. Unskilled.	5 133	3	8 133		
GEORGIA	. 1,198	34	1, 227		
Unskilled	. 1,198	84	1, 227		
Illinois	2,031	22	2,053		
Skilled	1,284		1,284		
Unskilled Prison duties	432 315	22	432 337		
Indiana	995		995		
Skilled	995		995		
Iowa	712	57	769		
Unskilled	. 3 18 345 49	53	371 345 53		
Prison duties	588	5	599		
Kansas	387				
SkilledUnskilled	201	5	387 206		
KENTUCKY	1,149	61	1,210		
SkilledUnskilledPrison duties	235 703 211	20 37 4	255 740 215		

Kinds of Labor in Penal Institutions-Continued.

	CONVICTS AT WORK.				
STATES AND KINDS OF WORK.	Males.	Females.	Total.		
Louisiana	551	38	589		
UnskilledPrison duties	551	38	551 38		
Maine.	339	11	350		
Skilled Prison duties.	287 52	8 3	295 55		
Maryland	895	121	1,016		
SkilledPrison duties	712 183	88 33	800 216		
Massachusetts	2,625	697	3.322		
Skilled. Unskilled Prison duties.	1,985 119 521	229	2, 214 119 989		
Michigan.	1,526	95	1,621		
Skilled. Unskilled Prison duties	1, 265 51	75	1,340 51		
	210	20	230		
MINNESOTA	241 206	9 6	250 212		
Prison duties.	35	3	38		
MISSISSIPPI	1,075	25	1, 100		
Skilled Unskilled Prison duties.	1,000 19	7	1,000 37		
MISSOURI	1, 149	98	1,247		
SkilledUnskilledPrison duties	730 402 17	78 20	730 480 37		
Nebraska	239	3	242		
Skilled. Unskilled.	227 12	3	230 12		
Nevada	142		142		
Skilled Prison duties Prison d	81 61		81 61		
NEW HAMPSHIRE	256	15	271		
SkilledUnskilledPrison duties	233 10 13	15	233 10 28		
New Jersey	756	82	838		
Skilled Unskilled Prison duties	581 155 20	82	581 155 102		
New York	6, 3 87	654	7,041		
Skilled Unskilled Prison duties	5, 692 345 350	307 347	5, 999 345 667		

Kinds of Labor in Penal Institutions-Continued.

	CONVICTS AT WORK.				
STATES AND KINDS OF LABOR.	Males.	Females.	Total.		
NOBTH CAROLINA	1,028	54	1,08		
Skilled Įnskilled	169	12	183		
Inskilled	789 70	30	819		
· ·					
Оню	2,044	210	2, 25		
Skilled Jnskilled	1,522 150	148	1,67		
Inskilled Prison duties.	372	62	156 43		
Obegon	55		51		
Bkilled	45		4		
Jnskilled	10		ĩ		
PENNSYLVANIA.	2,994	285	3, 27		
		204	•		
3killed Jnskilled Prison duties	2, 210 536	204	2, 414 530		
rison duties	248	81	530 320		
RHODE ISLAND	293	75	368		
killed	111	44	15		
skilled. Jnskilled Prison duties.	117 65	31	117 96		
SOUTH CABOLINA.	710	16	72		
killed	161		16		
killed Jnskilled.	549	16	568		
Tennessee	1, 167	33	1,200		
Skilled Inskilled	515		511		
Inskilled Prison duties	533 119	33	533 153		
Texas	1,718	20	1,73		
JnskilledPrison duties:	1, 415 303	20	1, 41, 32		
VERMONT	250	21	27		
Skilled Unskilled	198 12		190		
Unskilled Prison duties	40	21	6		
Virginia	790	28	818		
killed.	290	28	318		
Skilled. Unskilled	500		500		
WEST VIBGINIA	238	5	24		
SkilledPrison duties	200 38	<u>5</u>	200 43		
Wisconsin	778	14	79		
Skilled.	641		64		
Jnskilled	43 94		100		
Prison duties	94	14	100		
Territories	84		8		
Skilled Unskilled	61		67 19		
Prison duties	19 4		15		

RECAPITULATION.

· -	Convicts at Work.					
Kinds of Labor.	Males.	Females.	Total.			
United States	37, 245	2,877	40, 122			
Skilled. Unskilled Prison duties	22, 288 11, 450 3, 507	1, 236 218 1, 423	23, 524 11, 668 4, 930			

Table VI.—Classification of Penal Institutions.

Chales and Wind of Tachibation	No. of Institutions.	Conv	icts in P	rison.	Con	victs at V	Vork.
States and Kind of Institutions.	f In- tions.	Males.	Fem a l's	Total.	Males.	Femal's	Total.
Alabama	1	621	33	654	566	18	584
State Prison	1	621	33	654	566	18	584
ABKANSAS	1	508	13	521	508	13	521
State Prison	1	508	13	521	508	13	521
California	1	1,571	11	1,582	318	¦	318
State Prison	1	1,571	11	1,582	318		318
Colorado	1	154	1	155	154		155
State Prison	1	154	1	155	154		154
Connecticut	9	590	63	653	563	55	618
State Prison	1 8	· 274 316	4 59	278 375	261 302	4 51	265 353
DELAWARE	3	96	8	104			
County Jails	3	96	8	104			
FLORIDA	.1	138	3	141	138	3	141
State Prison	1	138	3	141	138	3	141
Georgia	1	1, 193	34	1,227	1, 193	34	1,227
State Prison	1	1, 193	34	1,227	1, 193	34	1,227
Illinois	3	2, 031	28	2, 059	2,031	22	2, 053
State Prisons	2 1	1,853 178	28	1,881 178	1,853 178	22	1,875 178
Indiana	2	1,231		1, 231	995	! 	995
State Prisons	2	1,231		1,231	995	; ',	995
Iowa	3	733	57	790	712	57	769
State Prisons	2 1	592 141	4 53	596 194	571 141	4 53	575 194
Kansas	1	588	5	593	588	5	593
State Prison	1	588	5	593	588	5	593
Kentucky	2	1, 187	79	1,266	1,149	61	1,210
State Prison	1	982 205	41 38	1,023 243	982 167	41 20	1,023 187
Louisiana	1	551	38	589	551	38	589
State Prison	1	551	38	589	551	38	589
Maine	15	408	22	430	339	11	350
State Prison	1 4	214 194	3 19	217 213	514 125	3 8	217 1 3 3

TABLE VI.—Continued.

States, and Kinds of Institutions.	No. o	Conv	icts in P	rison.	Con	victs at V	Vork.
States, and Kinds of Institutions.	No. of Institutions.	Males.	Femal's	Total.	Males.	Femal's	Total.
Maryland	3	1,070	162	1,232	895	121	1,016
State Prison City Jail House of Correction	1 1 1	729 245 96	54 40 68	783 285 164	729 130 36	54 30 37	783 160 73
Massachusetts	27	3,655	839	4, 494	2, 625	697	3, 322
State Prisons. City and County Jails. Workhouses & Houses of Correction Reform Schools	2 8 15 2	758 232 2, 295 370	371 32 411 25	1, 129 264 2, 706 395	613 42 1,733 237	345 10 342	958 52 2, 075 237
Michigan	4	1,679	98	1,777	1,526	95	1, 621
State Prison Reform School Houses of Correction	1 1 2	787 318 574	3 95	790 318 669	733 318 475	95	733 318 570
MINNESOTA	2	331	12	343	241	9	250
State Prison	1	235 96	3 9	238 105	215 26	3 6	218 32
Mississippi	1	1,075	25	1, 100	1,075	25	1,100
State Prison	1	1, 075	25	1, 100	1,075	25	1,100
Missouri	2	1,470	154	1,621	1,149	68	1, 247
State Prison	1	1, 265 205	51 100	1,316 305	950 199	98	950 297
Nebraska:	1	247	3	250	239	3	242
State Prison	1	247	3	250	239	3	242
NEVADA.	1	142		142	142		142
State Prison	1	142		142	142		142
NEW HAMPSHIRE	2	377	30	297	256	15	271
State Prison	1	174 103	5 15	179 118	153 103	15	153 118
New Jersey	4	1,332	119	1,451	756	82	838
State Prison	1 2 1	774 281 277	37 82	811 363 277	304 175 277	82	304 257 277
NEW YORK	12*	7,343	798	8, 141	6,387	654	7, 041
State Prisons	4 6 2	3, 670 2, 602 1, 071	520 278	3, 670 3, 122 1, 349	3, 046 2, 270 1, 071	376 278	3,046 2 646 1,349
North Carolina	1	1,028	54	1,082	1,028	54	1,082
State Prison	1	1,028	54	1,082	1,028	54	1,082
Оню	4	2, 204	214	2, 418	2,044	210	2, 254
State Prison	1 2 1	1,487 568 149	42 134 48	1,519 702 197	1, 444 456 144	32 132 46	1,476 588 19 6
Oregon	1	189		189	55		55
State Prison	1	189	l. .	189	55		55

TABLE VI—Continued.

States, and Kind of Institutions.	No.of stituti	Convicts in Prison.			Conv	icts at V	Vork.
states, and Aine of Insulations.	of In- itions	Males.	Femal's	Total.	Males.	Femal's	Total.
Pennsylvania	13	4, 166	521	4,687	2,994	285	3, 279
State Prisons County Jails Workhouses & Houses of Correction Houses of Refuge and Ref'm Schools	2 7 2 2	1,823 658 1,008 677	23 49 278 171	1,846 707 1,286 848	1, 415 347 659 573	36 129	1, 438 383 788 670
RHODE ISLAND	.3	293	75	368	293	75	368
State Prison County Jail Workhouse and House of Correction	1 1 1	87 89 117		92 96 180	87 89 117		92 96 180
SOUTH CAROLINA	1	710	16	726	710	16	726
State Prison	1	710	16	726	710	16	726
Tennessee	1	1, 167	33	1,200	1, 167	33	1,200
State Prison	1	1, 167	33	1,200	1, 167	33	1, 200
Texas	1	1,718	20	1,738	1,718	20	1,738
State Prison	1	1,718	20	1,738	1,718	20	1,738
VERMONT	2	250	21	271	250	21	271
State Prison	1	150 100			150 100		
Virginia.	1	936	80	1,016	790	28	218
State Prison	1	936	. 80	1,016	790	28	818
WEST VIRGINIA	1	238	5	243	238	5	245
State Prison	1	238	5	243	238	5	249
Wisconsin	3	863	22	885	778	14	792
State Prison House of Correction Reform School.	1 1 1	316 119 428	• 14		231 119 425	14	23: 13: 42:

RECAPITULATION.

Kind of Institutions.	No. of Institutions	Conv	icts in P	rison.	Conv	ricts at \	Vork.
Aind of Institutions.		Males.	Femal's	Total.	Males.	Femal's	Total.
United States	129`	44, 084	3,685	47,769	37, 245	2,877	40, 122
State Prisons	40 25	80, 276 4, 713 4, 982 4, 113	816 1, 163	31, 326 5, 529 6, 145 4, 769	26, 208 3, 480 3, 794 3, 763	600 910	27, 041 4, 080 4, 704 4, 297

Note—In Massachusetts, eleven "Houses of Correction and Jails" combined, have been classed as "Houses of Correction." The "Boston House of Industry" is classed among "Workhouses." The "Boston House of Reformation," among "Reform Schools." In Ohio, the "Cleveland Workhouse and House of Refuge" is classed among "Workhouses." In Wisconsin, the "Industrial School," at Milwaukee, is classed among "Reform Schools."

TABLE VII.—Method of Employment.

_	Employed.					
States.	Under Lease.	By Con- tractors.	On Public Account.	In Prison Duties.	Totals.	
United States	9,041	16,747	9, 404	4,930	40, 1	
Jabama	584		1	1	5	
rkansas.	508	•••••		13	5	
alifornia	000	318		10	3	
olorado		40	47	67	ĭ	
onnecticut		504	29	85	6	
elaware				~	0.	
lorida.	141				1	
eorgia	1.227				$1, \hat{2}$	
llinois		1,271	445	337	2, 0	
ndiana		995			-, 9	
owa	Í	318	398	53	79	
ansas		320	273		5	
entucky	995			215	1, 2	
ouisiana	551			38	-, 5	
aine		78	217	55	Š	
[aryland		800		216	1.0	
la-sachusetts		1.880	453	989	3,3	
lichigan		698	693	230	1,6	
linnesota		180	32	38	- 2	
lississippi	1,000		63	37	1, 1	
Lissouri	220	730	260	37	1, 2	
ebraska	242				- 2	
evada	l	. 	81	61	1	
ew Hampshire	l	231	12	28	2	
ew Jersey		304	432	102	8	
ew York		4,908	1,436	697	7,0	
orth Carolina			1,000	82	1,0	
hio		1,268	562	434	2, 2	
regon		- 55				
ennsylvania		980	1,970	229	3, 2	
hode Island		188	84	96	3	
outh Carolina	563		163		7	
ennessee	1,048			152	1,2 1,7	
exas	1,415			353		
ermont		196	14	61	2	
irginia	500	54	264		8	
Vest Virginia		200	<u></u>	43	2	
Visconsin	<u>;-</u>	231	453	108	7	
he Territories	47	i .	33	1 4 l		

The completeness of the foregoing tables and the fullness of their headings preclude the necessity of any extended analysis of the same. A glance at them shows that there are 129 penal institutions of all grades in the United States in which convicts are employed at any kind of labor: 48 are State prisons, 40 city and county jails and penitentiaries, 25 workhouses and houses of correction, and 16 houses of refuge and reform schools, (see note to Table VI.) In these 129 institutions, which, according to the best official information to be obtained, include the institutions, in all the States, in which convicts are in any way employed, there are 47,769 inmates: 44,084 males and 3,685 females; \$7,245 males and 2,877 females are employed at some kind of work: making a total of 40,122 convicts engaged in labor in all the penal institutions of this country where labor is employed. These convicts are employed in skilled work, unskilled work, and prison duties. In skilled work there are 22,288 males, 1,236 females—total, 23,524. In unskilled work, 11,450 males, 218 females—total, 11,668. In prison duties, 3,507 males, 1,423 females—total, 4,930. The convicts employed in skilled and unskilled work are engaged in the following trades:

SKILLED.

Sewing.

Agricultural implements. Agricultural implements and wire. Slippers. Agricultural threshing machines. Bottoming shoes. Axles. Basket-making. Basket-making and covering demi- Blacksmiths and wheelwrights. johns. Bakers. Bagging weaving. Bedsteads. Chairs and bedsteads. Cabinet-making and furniture. Chair, cane-seating. Chair-making. Chair, cane-seating and mattrass- Carpenters. making. Chairs, rustic. Furniture. Chair, flag-seating. Cane-work. Bolts, nuts, etc. Saddlery, hardware. Hardware and foundry work. Shelf hardware. Wrought strap-hinges. Crystal metal bells. Carriage bolts. Boots and shoes. Boot-stitching. Shoe-making. Shoes.

heels.

Inner soles for shoes, paste-work. Shoe and tailor shops. Blacksmiths. Brick-makers. Brick-makers and masons. Brick-masons. Masons. Stone-masons. Brooms. Brushes. Boxes, paper. Carpenters and coopers. Carriages and buggies. Farm and spring wagons. Cooperage, carriages, sleighs and wagons. Sleighs. Carriage-trimmers and painters. Carriage wood-work. Paint shop. Carpet rags, cutting and weaving. Carpet-rag and chain-spooling. Carpet rags, sewing. Cigars. Tobacco factory. Clothing, ready made. Seamstresses. Inner soles, shoe counters and Tailoring.

Shirts and overalls, for export. Overalls.

Shirt-making.

Clothing and shoes, for prison Leather-tanning.

use.

Sewing and knitting.

Knitting, Stockings. Cooks. Cooperage.

Tubs and buckets.

Edge tools.

Carpenters' tools.

Gilding. Harnesses. Halters.

Harnesses, collars and whips.

Horse collars.

Harness and saddlery.

Whips. Hats.

Iron, malleable. Wire-working. Barbed-wire, fence.

Wire cloth. Wire.

Machinists and blacksmiths.

Car-wheels, stoves and hollow-

ware.

Laundry work. Leather-tanning Match boxes.

Printing.
Pocket-books.

Plumbers and tinsmiths.

Tinsmithing. Stone-cutters. Saddle-trees.

Sashes doors and blinds.

Sashes and blinds.

Saw mills. Stone-cutters. Stone work.

Marble furniture and mantle work.

Granite monumental work. Stoves and hollow-ware.

Toy watches.
Toys and notions.
Wooden ware.
Weaving.

Weaving prison stripes.
Weaving bagging.
Weaving carpet.
Weavers and tailors.

UNSKILLED.

At work on the new prison.
Breaking stone for macadamizing.
Coal mines.
Farms
Plantations and brick-yards.
Laborers on turpentine farms.
Cultivating tobacco.
Sugar and cotton plantations.
Sugar and cotton plantations.
Railroads, farms and mines.
Railroads and levees.
Railroads and levees.
Wood-chopping.
Gas-making.
Hemp manter in the pricking manter in the pricking in the pricking was pricking was grading.
Road-making.

Hemp manufacturing.
Iron mines.
Laborers, outside of jail.
Lumpers in shops.
Teamsters.
On public works.
Picking hair.
Picking wool.
Quarrying stone.
Quarrying, building sea-wall and grading.
Road-making.

EARNINGS AND EXPENSES.

To judge of the actual condition of any portion of a people, it is necessary that we should have an approximate idea of their income and expenses, and the manner in which the expenses are incurred. In order to arrive at conclusions based upon facts, we have compiled, from the blanks sent out to employes, the following tables of earnings and expenses of families making returns to this bureau. About seven hundred families are represented in these tables; and, in an economic way, the returns are satisfactory, and show that quite a good proportion of the people are saving something. The number of those who save, as witnessed by the returns, is more than double those whose expenses exceed their incomes.

There seems to be a decided disposition to accumulate property among the majority of all the occupations. The independence of the person who owns his own home is well understood and appreciated, and there is a growing desire, throughout the whole State, to enjoy that advantage. The surplus of the majority of the incomes is generally devoted to that end; and the comfort and content among those communities where the largest number of homes are owned are happy commentaries upon, and satisfying results, of any temporary deprivation or discomfort that the savings of the price of

these homes have engendered.

The tables appended explain themselves.

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Expense	s Exceed Earnings	120 00 14 14 00 15 00
Earning	s Exceed Expenses	25
	Total	
	All other Expenses	26 8888 8 88888 8 88888 8 88888 8 8 8 8
	Sickness	8 8 18 18 18 18 18 18 18 18 18 18 18 18
	Recreation	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	Tobacco and Liquors	25
Expenses.	Education (including papers	######################################
Expr	Clothing and Dry Goods	258
	Meat and Vegetables	######################################
	Groceries,	258
	Fuel and Lights	######################################
	Rent	8 8828 8 88 88 88 88 88 88 88 88 88 88 8
YEAB.	Total	1. 1888
WAGES FOR]	Young Persons	200 00 00 00 00 00 00 00 00 00 00 00 00
WAGE	Adults	255 88 88 88 88 88 88 88 88 88 88 88 88 8
No. EARN'G WAGES	Young Persons	
EAL	Adults	
EB Y	Total	<u> </u>
NUMBER IN FAMILY.	Young Persons	
ξÀ	Adults	<u> </u>
Numbe	er of Blank	_aev4r,ac/ac/2122225252222222222222222

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255
8 1228 28 1888 1888 1888 1888 1888 1888
1234 15 1236 1237 12
288: 288222232: 288: 26252223: 2883: 288: 2883:
8
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75 70 70 70 70 70 70 70 70 70 70 70 70 70
2525 25 25 25 25 25 25 25 25 25 25 25 25
<u> </u>
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<u>ფიოფიოთდიოთიოთ—თუიოთს—თიით +თით ფიოფიოთდითთით +თით</u>
888888888414444444444488288888888888888

CARPENTERS—Continued.

Expens	es exceed Earnings	99 991
Earnings exceed Expenses		454 90 388 97 128 89 970 90 510 90 58 90 50 50 50 50 50 50 50 50 50 50 50 50 50
	Total.	24
	All other Expenses.	25.5 24.25 25.5 25.5 25.5 25.5 25.5 25.5
	Sickness	28 : 188 : 8 : 8 : 8 : 8 : 8 : 8 : 8 : 8
	Recreation	1 00 15 00 10 00 4 00
	Tobac'o and Liquors	88 : :888 : : : :8 :8888 :
Expenses.	Education (including papers)	22 : 23 : 2522 : 28
Exp	Clothing and Dry Goods	86 60 60 60 60 60 60 60 60 60 60 60 60 60
	Meat and Vegeta- bles	8 88 88 88 88 88 88 88 88 88 88 88 88 8
	Groceries	8 28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Fuel and Lights	3
	Rent	22 88 89 89 89 89 89 89 89 89 89 89 89 89
EAB.	Total.	1, 200 00 1, 200 00 1, 200 00 1, 200 00 1, 200 00 2, 200 00
WAGES FOR YEAR.	Young Persons	500 00
	Adults,	200 00 300 00 1,800 00 500 00 500 00 800 00 800 00 800 00 800 00
N'G	Young Persons	
No. EARN'G WAGES	Adults	- : : : : : : : : : : : : : : : : : : :
e .	Total	2 . 02.04.00
MBE	Young Persons	н <u>жнижим жн</u> жим жф
No FA	Adults	0 : ∞ − ∞ 0 0 0 0 0 4 0 0 0 0 0 0 0 − 0 0 0 0 0 − 0 0 0 0
Number	of Blank	8388888888888888

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Expenses exceed Earnings		09 92. 93 891 8
Earnings exceed Expenses		\$173 00 113 40 114 40 115 4
	Total	\$347.46 \$580.00 \$580.00 \$580.00 \$1719.50 \$1150.00 \$1150.00 \$1150.00 \$2
	All other Expenses.	26 25 25 25 25 25 25 25 25 25 25 25 25 25
	Sickness	\$43 50 50 50 50 50 50 50 50 50 50 50 50 50
	Recreation	\$7 00 115 00 115 00 25 00 25 00 5 00 5 00 5 00
	Tobac'o and Liquors	911 912 912 912 913 914 915 915 915 915 915 915 915 915
Expenses.	Education (including papers)	68888888888888888888888888888888888888
Exp	Clothing and Dry Goods	85 55 55 55 55 55 55 55 55 55 55 55 55 5
	Meat and Vegeta- bles	### 444
	Groceries	150 150 150 150 150 150 150 150 150 150
	Fuel and Lights	\$\frac{2}{2} \text{1} \text{2}
	Rent and Taxes	\$72 00 84 00 114 00 84 00 108 00
YEAB.	Total	25.25.25.25.25.25.25.25.25.25.25.25.25.2
WAGES FOR YEAR	Young Persons	200 00 200 00 75 00
WAGI	Adults	\$526 50 50 50 50 50 50 50 50 50 50 50 50 50
No. Earn'g Wages	Young Persons	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
EAL	Adults	
EX.	Total	::::::::::::::::::::::::::::::::::::::
NUMBER IN FAMILY.	Young Persons	
Z F4	Adults	: : 01 + 02 00 01 + 01 01 01 01 01 01 01 01 01 01 01 01 01
Number	r of Blank	

BLACKSMITHS—Continued.

Expense		
Earnings exceed Expenses		\$550 00 \$00 00 \$41 15 138 50 43 90
	Total	25.00 24.00 24.00 25.00 28.70 316.50 807.00
	All other Expenses.	\$136 256 266 266 266 266 266 266 266 266 26
	Sickness	150 90 12 90 10 90 30 90
	Recreation	1 00
	Tocac'o and Liquors	150 50 50 50 50 50 50 50 50 50 50 50 50 5
XPENBES.	Education (including papers)	5828288 828888
Exe	Clothing and Dry Goods	888888 888888
	Meat and Vegeta- bles	28855 2885 2885 2888 2888 2888
	Groceries	255 100 100 100 100 25 800 800 800 800 800 800 800 800 800 80
	Fuel and Lights	2622334 888888
	Rent and Taxes	\$150 00 10 00 50 00 60 00
EAB.	Total	\$2,000 700 900 900 850 850 850 850
WAGES FOR YEAR.	Young Persons	00 008\$
WAGE	Adults	\$2,000 00 700 00 00 00 00 00 00 00 00 00 00
No. ABN'G	Young Persons	
EAB WA	Adults	8-62 :
# .;	Total	4700405-
MAB KIN KHIT	Young Persons	:300
No FA	Adults	4000000
Number of Blank		88888

ENGINEERS AND MACHINISTS.

	Expens	es exceed Earnings	(S)
	Earnings exceed Expenses		451 955 955 955 955 955 955 955 9
		Total	252 252 252 252 252 253 253 253 253 253
		All other Expenses.	### Page 1
		Sickness	25 (10 cm) 10 cm) 10 cm
	•	Recreation	## 10 00 00 00 00 00 00 00 00 00 00 00 00
		Tobac'o and Liquors	25 00 00 00 00 00 00 00 00 00 00 00 00 00
•	Expenses	Education (including papers)	25 00 00 00 00 00 00 00 00 00 00 00 00 00
	Exp	Clothing and Dry Goods	\$50 00 00 00 00 00 00 00 00 00 00 00 00 0
		Meat and Vegeta- bles	8 888 84 11 8 888 1 888 1 8 8 8 8 9 9 9 9 8 8 8 8
		Groceries	250 50 50 50 50 50 50 50 50 50 50 50 50 5
		Fuel and Lights	### ### ### ### ### ### ### ### ### ##
		Rent	485 00 108 00 48 00 150 00 108 00 108 00 75 00
	YEAR.	Total	**************************************
	WAGES FOR YEAR.	Young Persons	7/02 90
		Adults	2428252525252525252525252525252525252525
	No. EARN'G WAGES	Young Persons	
	NUMBER NAME IN EAST	Adults	
		Total	
		Young Persons	0
	Z F	Adults	and an
	Number	of Blank	

	•			
Expens	es exceed Earnings			
Earning	gs exceed Expenses	520 00 00 00 00 00 00		20 00
	Total		35	
	All other Expenses.	\$20 00	80 80	
	Sickness	8	56 70	88
	Recreation	90	2 00	
	Tobac'o and Liquors	90	10 00	
Expenses.	Education (including papers)	98	8	28
Ä.	Clothing and Dry Goods	\$200 00 \$25 00 \$50 00 \$50 00	90	150 00
	Meat and Vegeta- bles	\$100 00	110 00	104 00
	Groceries	\$250 00	240 00	260 00
	Fuel and Lights	00 09\$	90 44	99 98 98
	Rent		\$150 00	88
TEAB.	Total.		3 51	
WAGES FOR YEAR.	Young Persons			
WAGE	Adults		2 55	
No. EARN'G WAGES	Young Persons	:		:::
Z ₹	Adults			-
EB Y	Total	200	: œ ·	0.0
NA THE	Young Persons	တ	4.	ေတ
F F	Adults	0101	1-4	C01
Number	r of Blank	31.	88.89	

CAR REPAIRER AND BUILDER.

Expens	es exceed Earnings	96 25 888 90
Earning	s exceed Expenses	<u> </u>
	Total	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.
	All other Expenses	\$20 \$20 \$20 \$00 \$00 \$00 \$00 \$00 \$00 \$00
	Sickness	\$10 00 10 00 2 50
	Recreation	20 12 12 86 86 86 86 86 86
	Tobacco and Liquors	25.235 8888 8888
Expenses.	Education (including papers).	\$15 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10
EXE	Clothing and Dry Goods	255 128 90 90 90 90 90 90 90 90 90 90 90 90 90
	Meat and Vegetables	\$20 00 \$50 00 \$15 100 00 120 00 12 100 00 200 00 100
	Grocerles	3 523 3 8888
	Fuel and Lights	3888 8888
	Rent	98 00 170 00
GRAB.	Total	2288 2288 8888
Wages for Year .	Young Persons	\$74 00 350 00
WAGB	Adults	\$450 00 \$74 00 540 00 350 00
No. ARN'G	Young Persons	197
₹	Adults	
EX.	Total	4078
TOWN TOWN	Young Persons	<u>0403</u>
Z F4	Adults	
Tumbei	r of Blank	

Expense	es exceed Earnings	00 29\$
Earning	s exceed Expenses	25 00 25 00 25 00 27 00 28 00 28 00
	Total	25 25 25 25 25 25 25 25 25 25 25 25 25 2
	All other Expenses.	568 568 568 568 568 568 568 568 568 568
	Sickness	#2 : : #2&& 82 : : : 8888
	Recreation	\$10 00
κά	Tobacco and Lig'rs.	\$10 00 \$25 00 10 00 \$25 00 18 00 7 00 10 00 5 00
Expenses.	Education (including papers)	
EX	Clothing and Dry Goods	475 00 40 00 150 00 50 00 60 00
	Meats and Vegeta- bles.	. 588 88 88 88 88 88
	Groceries	80 00 100 00 101 00 101 00 101 00
	Fuel and Lights	88 : 8888 8848
	Rent	\$75 00 180 00 108 00 60 00
YEAR.	Total	260 260 260 260 272 260 260 260 260 260 260 260 260 260 26
WAGES FOR YEAR.	Young Persons	
Wадв	Adults	\$600 00 400 00 725 00 573 00 512 00
O, RN'G GEB.	Young Persons	
E N	Adults	
EB Y.	Total	40040 470
MIN	Young Persons	- :00-4-0
N.	Adults	000000 :000
Number	of Blank	H00041001-00

TINNERS.

Expens	es exceed Earnings	\$256 00
Earning	gs exceed Expenses	8 : 888 8 : 888 8 : 888
	Total	250 250 250 250 250 250 250 250 250 250
	All other Expenses.	\$300 00 10 00 15 00 16 00 10 00
	Sickness	750 750 50 50 50 50 50 50 50 50 50 50 50 50 5
	Recreation	508 8 8
	Tobac'o and Liquors	25 00 55 00 55 00 15 00
Expenses.	Education (includ- papers)	8: 8: 888:
Exp	Clothing and Dry Goods	250 00 150 00 250 00 250 00 150 00
	Meat and Vegeta- bles	286 90 1986 90 280 90 280 90 280 95
	Groceries	2475 2475 150 00 150 00 50 00 85 00
	Fuel and Lights	88288 6 88888 8
	Rent	72 80 72 80 75 90 75 90 182 90
EAB.	Total	88888888888888888888888888888888888888
WAGES FOR YEAR.	Young Persons	\$206 00
WAGE	Adults	\$500 00 400 00 312 00 800 00 400 00
RN'G GES	Young Persons	::::
ME ME ME ME ME ME ME ME ME ME ME ME ME M	Adults	
BEB LY.	Total	244676743
NUM IN IAME	Young Persons	<u> </u>
	Adults	
Numbe	r of Blank	1.28.47.05.8

HARNESS MAKERS AND SADDLERS.

Expens	es exceed Earnings	\$130_00
Earning	gs exceed Expenses	300 00 300 00 300 00 51 00
•	Total	256 256 256 256 256 256 256 256 256 256
	All other expenses.	85 55 55 55 55 55 55 55 55 55 55 55 55 5
•	Sickness	200 00 200 00
	Recreation	10 00 00 00 00 00 00 00 00 00 00 00 00 0
	Tobac'o and Liquors	00 00 00 00 00 00 00 00 00 00 00 00 00
Expenses.	Education (including papers)	88 8 8 88 8 8
Exp	Clothing and Dry Goods	126 00 150 00 150 00
	Meat and Vegeta- bles	125 00 100 00 10 00 10 00
•	Groceries.	\$150 00 100 00 150 00 260 00
	Fuel and Lights	83 8 83 83 8 88
	Rent	21 25 26 00 00 00 00 00 00 00 00 00 00 00 00 00
FEAB.	Total	1, 666 866 1, 666 1, 286 866 896 896 896 896 896 896 896 896 8
WAGES FOB YEAR.	Young Persons	80000 40000 00000
ΨΑΘΙ	Adults	\$1,000 00 1,200 00 1,200 00 720 00 1,000 00
No. EARN'G WAGES	Young Persons	8187777
	Adults	4020200
MOBER In Killy.	Young Persons	014010 ;p ;
N O	Adults	ଷଷରସସସ
Number	of Blank	1984695

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Expense	es exceed Earnings	88 88 88 84 84 84 84 84 84 84 84 84 84 8
Earning	s exceed Expenses	#390 00 174 20 00 110 00 22 20 00 22 20 00 22 80 00 22 80 00 22 80 00 23 80 00 24 80 00 27 00
	Total	#500 800 800 800 800 800 800 800 800 800
	All other Expenses	\$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$
	Sickness	124 124
	Recreation	\$5 00 00 00 00 00 00 00 00 00 00 00 00 00
ù	Tobac'o and Liquors	#5 00 100 00 100 00 10 00 10 00 10 00 10 00 8 00 8
Expenses.	Education (including papers)	25: 25: 25: 25: 25: 25: 25: 25: 25: 25:
EXP	Clothing and Dry Goods	\$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55
	Meat and Vegeta- bles	28 28 28 28 28 28 28 28 28 28 28 28 28 2
	Groceries	150 000 000 000 000 000 000 000 000 000
	Fuel and Lights	888 888 888 888 888 888 888 888 888 88
	Rent	25 28 28 28 28 28 28 28 28 28 28 28 28 28
EAB.	Total	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
WAGES FOR YEAR.	Young Persons	150 00 125 00 125 00 126 00 126 00
WAG	Adults	\$475 00 226 00 225 00 225 00 450 00 450 00 450 00 850 00
No.	Young Persons	
EAR	Adults	
	Total	40r : 88-105-884 108 888 44
NUMBER IN FAMILY.	Young Persons	ממשב הח המשה החשמה הה מימות
No FA	Adults'	88846864864864884888888888888888888888
Number	of Blank	1222472572522

Expense	es exceed Earnings	88 88 80 00 00 00 00 00 00 00 00 00 00 0
Earning	s exceed Expenses	\$100 00 115 00 50 00
!	Total	64488848888888888888888888888888888888
, ,	All other Expenses.	00 00 00 00 00 00 00 00 00 00 00 00 00
	Sickness	2003 :3 2228 :3
•	Recreation	00 00 00 00 00 00 00 00 00 00 00 00 00
erá	Tobacco and Liq'rs.	
氏XP BN 8 BB	Education (includ- ing papers)	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Exi	Clothing and Dry Goods	200 00 00 00 00 00 00 00 00 00 00 00 00
•	Meat and Vegeta- bles	5558 552 5588 553
	Groceries	2000 2000 2000 2000 2000 2000 2000 200
. •	Fuel and Lights	8828 388 8828
; ;	Bent	00 S
YEAR.	Total	#1, 000 00 449 00 250 00 250 00 450 00 250 br>250 00 250 00 250 00 250 00 250 00 250 00 250 00 250 00 250 00 2
WAGES FOR	Young Persons	256 256 266 266 266 266 266 266 266 266
WAGE	Adults	257 00 00 00 00 00 00 00 00 00 00 00 00 00
N.C.	Young Persons	::::::
EAR	Adults	
	Total.	o :∞c-4-5 w ⊃ r : :
MABE	Young Persons	@ :@1-214-mm :m
N. FA	Adults	. : : : : : : : : : : : : : : : : : : :
Number	of Blank	

MARBLE CUTTERS AND STONE MASONS.

Expense	s exceed Earnings	22 22 28 28 28 38
Earning	s exceed Expenses.	*953 00
	Total	\$247 \$300 \$300 \$300 \$310 \$310 \$310 \$310 \$310
	All other Expenses.	25 15 15 15 15 15 15 15 15 15 15 15 15 15
	Sickness	00 00 00 00 00 00 00 00 00 00 00 00 00
	Recreation	10 00
•	Tobac'o and Liquors	\$15 90 \$ 90 50 90
Expenses	Education (including papers)	00 \$10 00 \$15 00 \$30 00 2 00 3 00 10 00 24 00 50 00 00 10 00 00 10 00 20 00 00 27 00
Exp	Clothing and Dry Goods	\$100 00 \$60 00 150 00 384 00 30 90
	Meat and Vegeta- bles.	\$25 00 72 00 52 00
	Groceries	\$100 00 114 00 180 00
	Fuel and Lights	8 8 8
	Rent	\$36 89 84 89 84 89 72 90
YEAB.	Total	\$1,200 00 300 00 400 00 430 00 300 00 352 00
WAGES FOR YEAR.	Young Persons	
WAGE	Adults	\$300 00 \$52 00
N'G	Young Persons	
No. EARN WAGI	Adults	
K. B.	Total	:004410
MB	Young Persons	01.4∞01 : 0
N FA	Adults	
Number	r of Blanks	10047005

CIGAR MAKERS.

Expense	es exceed Earnings	90 8
Earning	s exceed Expenses	\$89 00
	Total	\$511 00 149 00 360 00 358 00
	All other Expenses	\$10 00
	Sickness	\$20 00 15 00 42 00
	Recreation	\$19 00 5 00
	Tobacco and Liquors	\$19 00 5 00
Expenses	Education (including papers)	5 00 16 00
EXP	Clothing and Dry Goods	\$100 00 30 00 120 00
	Meat and Vegetables	\$60 40 80 80 80 80 80
	Groceries,	\$200 00 15 00 30 00
	Fuel and Lights	\$3 15 90 15 90
	Rent	\$72 24.00
YEAB.	Total	\$600 149 00 360 00 850 00
WAGES FOR YEAR.	Young Persons	
WAGE	Adults	
No. BN'G A GES	Young Persons	
No.	Adults	25524 L :L :
IBER III.Y.	Total	99999
NT DIN IN PANE	Young Persons	2000
Numbe	er of Blank	1.62.8.4

MILLERS.

Expense	es exceed Earnings	
Earning	s exceed Expenses	629 629 629 629 629 629 629 629 629 629
	Total	\$390 00 371 00 775 00 350 00 680 00
	All other Expenses.	25 75 144 100 100 100 100 100 100 100 100 100
	Sickness	2 00 50 00
	Recreation	8
	Tobac'o and Liquors	සීට් ව පලප ල
XPENSES.	Education (including papers)	888
EXP	Clothing and Dry Goods	\$50 00 200 00 50 00
	Meat and Vegeta- bles	\$62 20 20 20 20 20 20 20 20 20 20 20 20 20
	Groceries	\$156 00 350 00 130 00
	Fuel and Lights	\$55 00 90 00 40 00
	Rent	\$180 00 132 00
YEAB.	Total	\$400 00 900 00 775 00 850 00
WAGES FOR YEAR.	Young Persons	00 052\$
WAG	Adults	\$150 00 550 00
O.S. G.	Young Persons	
AF N	Adults	HH01H
EB Y.	Total	0∞∞40
	Young Persons	ಬಿಸುಬ-14
N Y	Adults	0000000
Number	of Blank	H0183410

TAILORS.

Expenses exceed Earnings..

Earning	s exceed Expenses	\$1.8 \$2.0 \$0.00 \$0.00
•	Total.	\$786 00 557 00 380 00 921 00
	All other Expenses.	\$50 00 50 6 0
	Sickness	37:88 8888
	Recreation	20 00 20 00 20 00
	Tobac'o and Liquors	8888 8888
XPENSES	Education (including papers)	55 50 50 50 50 50 50 50 50 50 50 50 50 5
EXP	Clothing and Dry Goods.	\$1 120 120 20 20 20 20 20 20 20 20 20 20 20 20 2
	Meat and Vegeta- bles	\$100 00 60 00 150 00
•	Groceries	250 00 120 00 300 00
	Fuel and Lights	8 8 8 6 8 8 8 6 8 8 8 8
•	Rent	\$96 108 108 141 00 00 00 00 00
YEAR.	Total	\$800 00 600 00 420 00 921 00
WAGES FOB YEAR.	Young Persons	
WAGE	Adults	
No. ABN'G AGES	Young Persons	::::
EAB WA(Adults	<u> </u>
EB	Total	
UMB IN AMII	Young Persons	- co : co
ZH	Adults	

Number of Blank.....

 ${f WATCHMAKERS}.$

Expense	es exceed Earnings	75 00
Earning	s exceed Expenses	1, \$10 1, \$60 1, \$60 388 64 64 64 64 64 64 64 64 64 64 64 64 64
	Total	\$50 00 00 00 00 00 00 00 00 00 00 00 00 0
	All other Expenses.	25 00 1,500 00 25 00 140 00 75 00 50 00
	Sickness	20 00 20 00
1	Recreation	#1 10 #1
	Tobac'o and Liquors	15 00 15 00 16 00 6 00 6 00 10 00 15 00
Expenses.	Education (including papers)	25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Exp	Clothing and Dry Gooes	\$150 00 100 00 100 00 100 00 100 00 100 00 140 00 140 00 140 00
	Meat and Vegeta- bles	\$40.00 100 00 100 00 200 00 150 00 28 00 28 00
	Groceries	\$50 00 00 00 00 00 00 00 00 00 00 00 00 0
	Fuel and Lights	45 00 00 00 00 00 00 00 00 00 00 00 00 00
	Rent	\$100 00 120 00 120 00 120 00 150 00 168 00 168 00 169 00 169 00 169 00
YEAB.	Total	65 85 85 85 85 85 85 85 85 85 85 85 85 85
WAGES FOR YEAR.	Young Persons	1, 000 00 360 00 360 00 360 00 360 00
	Adults	25.50 25.50
No. EARN'G WAGES	Young Persons	
EAL WALL	Adults	
CX.	Total	40000140 : 10000 :0 :04 :014000
UMBER IN AMILY.	Young Persons	314433 : : : : : : : : : : : : : : : : : :
E E	Adults	<u> </u>
Number	of Blank	

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Expense	es exceed Earnings	:83 :83
Earnings exceed Expenses		00 8888 00 128 00 128
Elpenors.	Total	786 90 786 90 6775 00 1,500 00
	All other Expenses	10 (00 15
	Sickness	\$20 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00
	Recreation	8 8 88 9 8 38
	Tobac'o and Liquors	8298 8898
	Education, (includ- ing papers)	10 00 10 00 12 00 50 00 40 00
	Clothing and Dry Goods	\$5558 \$5568 \$6888 \$6888
	Meat and Vegeta- bles	210 00 172 00 200 00 200 00 200 00
	Groceries	\$210 \$210 \$250 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$6
	Fuel and Light	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Rent	120 88 88 170 88 88 170 88 88 170 88 88 170
WAGES FOR YEAR,	Total	241.1. 241.1. 252.2. 25
	Young Persons	312 00 450 00
	Adults	25.00 1,040 1,040 1,100 1,100 1,100 1,100
No. Earn' g Wages	Young Persons	: : : : : : : : : : : : : : : : : : : :
	Adults	
NUMBER IN FAMILY.	Total	0140100F00
	Young Persons	:- : 0.4.0.10
	Adults	200000000
Number of Blank		%&&&&&&

Expenses exceed Earnings		#895 80 25 95 36 95
Earnings exceed Expenses		250 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Total	65 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
•	All other Expenses	\$35.88 \$35.88 \$35.00 \$3
	Sickness	525082
	Recreation	\$100.00 100.00 100.00 100.00
	Tobac'o and Liquors	25
SES.	Education (including papers)	25 25 25 25 25 25 25 25 25 25 25 25 25 2
Expenses.	Clothing and Dry Goods	\$200 00 00 00 00 00 00 00 00 00 00 00 00
-	Meat and Vegeta- bles	27:00 00 00 00 00 00 00 00 00 00 00 00 00
	Groceries	250 00 00 00 00 00 00 00 00 00 00 00 00 0
	Fuel and Lights	## ## ## ## ## ## ## ## ## ## ## ## ##
	Rent	\$100 00 100 00 40 00 60 00
EAB.	Total	6600 000 000 000 000 000 000 000 000 00
WAGES FOR YEAR.	Young Persons	\$200 00 150 00 150 00 100 00 100 00 100 00 100 00 100 00
WAG	Adults	\$350 00 450 00 450 00 450 00 900 00 900 00
O. GES	Young Persons	: : : : : : : : : : : : : : : : : : :
WAE	Adults	: : : : : : : : : : : : : : : : : : : :
ER Y.	Total.	E001 :00040000040
UMBER IN IMILY.	Young Persons	92- : :401070L :90040900
E E	Adults	44 . 644000 40001010
Number of Blank		01224621-222

RICKLAYER

CARRIAGE TRIMMERS.

Expenses exceed Earnings			
Earnings exceed Expenses		\$202 00 90 00	100 00 105 00 20 00
	Total		610 610 680 680 680 680
	All other Expenses.	00 02	99 98 98
	Sickness	00 \$10 00	585 588 888
	Recreation	93	12 00 5 00 5 00
m².	Tobac'o and Liquors		\$15.00
Expenses.	Education (including papers)	**	5223 8223
EXP	Clothing and Dry Goods		200 85 85 80 150 90
	Meat and Vegeta- bles	\$20	150 160 160 00 150 00
	Groceries	0Z1	150 00 260 00 75 00 175 00
	Fuel and Lights		50 15 90 60 60 60 60 60
	Rent and Taxes	\$100 00	50 00
YEAR.	Total		600 600 700 700 600 600 600 600 600
WAGES FOB YEAR.	Young Persons		\$100 00
WAGI	Adults		00 009\$
O. GES	Young Persons	- ; ;	
EAL	Adults		
EB	Total	00 F-10	4946
DMTB.	Young Persons	es e	-4100010
Ę Ę	Adults	C/1-4-C	101000100
Number of Blank		-636	4700

		¢.•
Expense exceed Earnings		\$65 00 138 00 76 00
Earning	s exceed Expenses	\$35 00 325 00
	Total	## 125 00 4/15 00 4/15 00 662 90 673 00 800
	All other Expenses.	\$19 00 35 00 100 00 300 00 31 00
	Sickness	28 00 28 00 28 00 28 00 50 00
	Recreation	\$25 00 10 00
	Tobacco and Liq'rs.	20 00 25 00 25 00 10 00
Expenses.	Education (including papers)	24 122 90 43 90 35 90 36 90 36 90 37 90 38 90
Exp	Clothing and Dry Goods	\$15 00 50 00 275 00 25 00 25 00 25 00 30 00
	Meat and Vegeta- bles	\$10 00 50 00 50 00 156 00 156 00 35 00
	Groceries	\$15 00 60 00 175 00 30 00 190 00 200 00
	Fuel and Lights	\$5.00 \$5.00 \$5.00 \$6.00 \$6.00 \$6.00 \$6.00
	Rent	\$30 00 48 00 104 00 108 00
EAB.	Total.	\$\$100 00 400 00 662 00 250 00 1,000 00 390 00 390 00 392 00 468 00 520 00 520 00
WAGES FOR YEAR.	Young Persons	\$50 00 208 00
WAGI	Adults	\$312 00 260 00 520 00
No.	Young Persons	
EAI	Adults	
BER CLY.	Total.	400450 9656
N UMU IN FAMI	Young Persons Adults	<u> </u>
Number	of Blank	1.02.04.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0

SHOEMAKERS.



Expenses exceed Earnings		\$6.50 0.0 \$6.60 0.0 \$6.00 0.0 \$6.00 0.0
Earning	s exceed Expenses	197 788 68 90 180 00 180 00
	Total	25.5 25.5 25.5 25.5 25.5 25.5 25.5 25.5
	All other Expenses.	25.5 : : : : : : : : : : : : : : : : : :
	Sickness	22 28 69 69 69 69 69 69 69 69 69 69 69 69 69
	Recreation	5848 : 858 : 648
	Tobac'o and Liquors	# : : :: : : : : : : : : : : : : : : :
Expenses	Education (including papers)	28 - 28 - 28 - 28 - 28 - 28 - 28 - 28 -
Exp	Clothing and Dry Goods	25556 : \$222282883 8888 : 88888888
	Meat and Vegeta- bles	35.00
	Groceries	250 00 00 00 00 00 00 00 00 00 00 00 00 0
	Fuel and Lights	:_:_:_:_:_:
	Rent	52 52 52 52 52 52 52 52 52 52 52 52 52 5
YBAB.	Total	2560 2560 2560 2560 2560 2560 2560 2560
WAGES FOR YEAR.	Young Persons	\$500 00
WAGE	 Adults	00 001*
KN.G	Young Persons	: : : : : : : : : : : : : : : : : : :
EA.	Adults	ನ್ನ ಬಿಡುವ ಜನಾನಗಣ
UMBER IN AMILY.	Total	2000-21 : : : : : : : : : : : : : : : : : : :
NUM IN FAMI	Young Persons	470340H04-04-00-04
Number	of Blank	-32.42.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2

MOULDERS

CABINET-MAKERS.

Expense	es exceed Earnings	98 523 60 424
Earning	s exceed Expenses	
	Total	\$375 00 375 00 372 00 476 00 500 00 380 00 1,359 00
	All other Expenses	100 90 21 90
	Sickness	\$5 90 10 90 100 90 100 90
	Recreation	\$12 00 \$10 00 5 00 2 00 25 00 10 00 42 00
	Tobacco and Liquors	25 85 85 85 85 85 85 85 85 85 85 85 85 85
Expenses	Education (including papers)	2000 2000 2000 2000 2000 2000
EXP	Clothing and Dry Goods	5389 88 8888 88
	Meat and Vegetables	25 00 54 00 312 00
	Groceries,	\$150 00 175 00 100 00 130 00 800 00 624 00
	Fuel and Lights	#8888 34 8888 88
-	Rent	20 20 20 20 20 20 20 20 20 20 20 20 20 2
KEAB,	Total	\$500 00 \$75 00 \$50 00 \$50 00 \$60 00 1,408 00
WAGES FOR YEAR,	Young Persons	\$156 00
	Adults	\$962 00
No. EARN'G WAGES	Young Persons	
ଇଁ≱	Adults	
EB	Total	4476885
VXB	Young Persons	245 245 25 25 1123 124 7
ZF	Adults	
Number of Blank		<u> ಇದ್ದು ಕಾರ್</u> ಗೆ

Expense	es exceed Earnings	#30 85 76 00 97 00 252 50 9 00
Earning	s exceed Expenses.	\$20 00
	Total	250 200 200 200 200 200 200 200 200 200
	All other Expenses.	\$57 00 \$3 60 \$3 00
	Sickness	8 8888 8 8 8888 8
	Recreation	\$10.00 1.00
	Tocac'o and Liquors	\$30 00 10 00 15 00 7 00 13 00
Expenses	Education (including papers).	5 10 00 00 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
EXP	Clothing and Dry Goods	25 25 25 25 25 25 25 25 25 25 25 25 25 2
	Meat and Vegeta- bles	3 252555 8 888888
	Groceries	<u> </u>
	Fuel and Lights	#4828289 88888888
•	Rent and Taxes	48 00 100 00 75 90 60 25
(EAB.	Total	8639 8639 8639 8639 8639 8639 8639
WAGES FOR YEAR.	Young Persons	00 001
WAGE	Adults	00 005\$
No.	Young Persons	67
ZE X	Adults	- C3
EB. Y.	Total	₹88£ 450 €
MIL	Young Persons	8224277
ZZ	Adults	9169616261636169
Number of Blank		H21024172,00 5-00

COOPERS.

Expenses exceed Earnings		00 66\$
Earning	s exceed Expenses	\$10.00
	Total	\$134 00 352 00 488 00 192 00 192 00 225 00 165 00
	All other Expenses.	\$11 00 144 00 55 00 30 00 14 00
	Sickness	\$17 00 10 00 10 00 10 00 10 00 15 00 15 00
	Recreation	\$25 00
	Tobac'o and Liquors	10 00 10 00 10 00 10 00 8 00 8 00 8 00 8
Expenses.	Education (includ- papers)	\$1 00 15 00 10 00 10 00 20 00 2 00 5 00
Expe	Clothing and Dry Goods	\$41 00 56 00 75 00 100 00 15 00
,	Meat and Vegeta- bles	68 00 68 00 50 00 40 00 25 00
	Groceries	25 90 175 90 175 90 185 90 180 90
	Fuel and Lights	25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
	Rent	90 00 90 00 90 00 90 00
YEAB.	Total	\$300 00 400 00 735 00 250 00 850 00 275 00 180 00
WAGES FOR YEAR.	Young Persons	
W≜G	Adults	
No. ARN'G AGES	Young Persons	
EA	Adults	400000000
BER TLY.	Total	1 1/24 1480
TONE	Young Persons	
	Adults	
Number of Blank		H3180 ≠170 30 f~ 00

PLASTERERS.

	Expense	es exceed Earnings	\$316 00
	Earning	s exceed Expenses	#105 00 112 00
		Total	8876 00 895 (8)
		All other expenses.	\$25 00 50 00 841 00
		Sickness	00 09
		Recreation	
		Tobac'o and Liquors,	8 8 :
	ense es.	Education (including papers)	888 988
	Expenses	Clothing and Dry Goods	8138 128 69 69 69 69
		Meat and Vegeta- bles	\$150 00
		Groderies	00 08 80 00 80 08
- 1		Fuel and Lights	00 00 00 00 00 00 00 00 00 00 00 00 00
		Rent	\$50 00 72 00 144 00
1	Wages for Year,	Total	\$560 00 560 00 750 00
		Young Persons	\$200 00
	WAGE	Adults	00 002\$ 00 006\$
	No. ARN'G	Young Persons	2::1
	WA	Adults	48-2
	BER V ILY.	Total	<u>∞; </u>
	N UM FAM	Young Persons	0124 F 01
	Number of Blank		⊢ 0102.4

SPINNING AND WEAVING.

STARCH-MAKER.

	es exceed Earnings			8		-8		8
Earning	gs exceed Expenses			\$145		\$516		\$14
	Total	\$300 00		\$455 00		\$384 00		\$386 00
	All other Expenses	\$204 00		\$50 00		\$50 00		\$10 00
	Siekness	\$11 30		20 00				\$10 00
	Recreation	\$ 00 00\$		20 00				\$2 00
	Tobac'o and Liquors	8		10 00 \$		75 00		\$10 00
Expenses.	Education, (including papers)	91\$ 00 01		00 \$10 00 \$10 00 \$50 00 \$50		14 00 \$		\$3 00 \$4
EXPE	Clothing and Dry Goods	\$30 70	\$39 70 \$10	\$75 00		\$100 00 \$14 00 \$75	-	\$75 00
	Meat and Vegeta- bles		\$50 00	• • •	\$25 00	ER.	\$50 00	
	Groceries		BUTCHER	\$125 00	BARBER	00 08\$	PAPER-MAKER	\$125 00
	Fuel and Light		BUI	\$35 00	BA	\$40 00	APEF	\$58 00
	Rent			\$50 00			А	00 878
EAB.	Total	\$300 00		00 009\$		\$900 00		\$400 00
WAGES FOR YEAR	Young Persons							
WAGES	Adults				·			
No. EARN'G WAGES	Young Persons							
	Adults							4
	Total			3		-61		4
NUMBER IN FAMILY.	Young Persons	_:_		- 63		-61		8
	Adults							-
Numb	er of Blank							

Expens	es exceed Earnings	98,778
Earning	gs exceed Expenses	621 00 621 00 1,025 00 50 00
	Total.	274 655 1,073 825 825 827 725 825 83 825 83 83 83 83 83 83 83 83 83 83 83 83 83
	All other Expenses.	20 00 67 00 75 00 100 00
	Sickness	22 22 32 32 32 32 32 32 32 32 32 32 32 3
i.	Recreation	23 : 33 : 21 : 33 :
	Tobac'o and Liquors	3888
EXPENSES	Education (including papers)	22532
Exp	Clothing and Dry Goods	22 22 25 00 1 00 00 00 00 00 00 00 00 00 00 00 0
	Meat and Vegeta- bles	255555 25555 25555 25555 25555
	Groceries	515 500 500 500 500 500 500 500 500 500
	Fuel and Lights	538558 88888
	Rent	#30 00 150 00 120 00
YEAR.	Total.	1, 100 00 1, 252 00 1, 252 00 1, 252 00 1, 252 00 1, 250 00 1, 250 00 1, 250 00 2, 250
WAGES FOR	Young Persons	\$100 00 52 00 100 00
WAGE	Adults	1,200 00 1,200 00 1,700 00
No.	Young Persons	- :07- :-
EAL	Adults	
ER.	Total	411 2
UMBER IN AMILY.	Young Persons	:0004 :0101 70120140
Z 14	Adults	.00 4 .00
Number	r of Blank	-024026

ROLLING MILL AND STEEL MILL EMPLOYES.

Expense	es exceed Earnings	25 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
arning	s exceed Expenses	88.21 88.22 89.00 89.00
	Total	522 500 504 504 504 500 500 500 500 500 500
	All other Expenses.	\$1 00 00
	Sickness	25 52 12 12 90 18
	Recreation	\$12 00 \$10 00 12 00 5 00 35 00 7 80
BES.	Tobac'o and Liquors	
Expenses	Education (including papers)	12 00 12 00 12 00
H	Clothing and Dry Goods	80 90 25 80 25 80
	Meat and Vegeta- bles	\$5 00 130 00 130 00 130 00
	Groceries	200 50 150 00 150 00 150 00 150 00 150 00
	Fuel and Lights	8 8 8 8 8 8 8 8 8 8 8
	Rent	24 25 26 20 30 30 30 30 30 30 30 30 30 30 30 30 30
EAB.	Total	252 252 252 253 253 253 253 253 253 253
WAGES FOR YEAR.	Young Persons	
WAGI	Adults	
No. ARN'G VAGES	Young Persons	
Z	Adults	1021001041
BEB	Total.	0-10 :0010
(UNK	Young Persons	<u> </u>
<u> </u>	Adults	<u> </u>
Numbe	r of Blank	1.92.470.57

*MECHANICS.

Expense		
Earning	s exceed Expenses	\$69 00 50 4 75 66 00
	Total	2366 90 274 50 234 50 260 95 260 95
•	All other Expenses.	\$10 00 10 00 10 00
	Sickness	27424 8888 :
	Recreation	9
	Tobacco and Liquors	\$10 00 5 00 8 00 20 00
XPENSES	Education (including papers).	545 56 56 56 56 56 56 56
Exp	Clothing and Dry Goods	258234 288334 28883
	Meat and Vegetables	85.443 60000 60000
	Groceries	1750 80 80 80 80 80 80 80 80 80 80 80 80 80
	Fuel and Lights	8228 8228 8238 8238 8338
	Rent	40 00 40 00 60 00
EAB.	Total	275 98 275 98 280 98 280 98 280 98
WAGES FOR YEAR.	Young Persons	\$35 00
WAGE	Adults	\$400 00 300 00
No. ARN'G AGES	Young Persons	80000
ZE Z	Adults	
SEB LY.	Total	8440
OMD IN	Young Persons	16688
ZH	Adults	2000
Number	of Blank	

BROOM-MAKERS.

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OPERATORS		
ELEGRAPH		
TELEGRAPH		
TELEGRAPH OPERATORS	•	
TELEGRAPH		
TELEGRAPH		

Expens	es exceed Earnings	\$120
Earnings exceed Expenses		\$276 00 488 00 150 00 66 00 300 00 43 00
	Total	250 1,000 1,
	All other Expenses.	88 282 8 88 888 8
	Sickness	#848 8 4 4 2 8888 8 8 8
	Recreation	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	Tobacco and Liq'rs.	8 90 8 8 90 90 90 90 90 90 90 90 90 90 90 90 90
Expenses.	Education (including papers)	8883 8 88 8883 8 88
EXP	Clothing and Dry Goods	25.00 25.00
	Meats and Vegeta- bles.	\$100 00 125 00 15 00 36 00 50 00 15 00 15 00
	Groceries	\$220 00 \$252 00 \$252 00 \$25 00
	Fuel and Lights	#44448 88888 88888 88888
	Rent	\$110 00 120 00 72 00 72 00 84 00 100 00
EAR.	Total	1,000 00 1,000 00 1,000 00 1,000 00 1,000 00 1,000 00 1,000 00 550 00 550 00 550 00 550 00
WAGES FOR YEAR.	Young Persons	
WAGE	Adults	\$1,000 00 550 00
No. EARN'G WAGES.	Young Persons	
KEN K	Adults	=======================================
ER	Total	40004400000
OMEB!	Young Persons	01010101201010010 01001101011010010
ZE	Adults	4444434444
Number	r of Blank	

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Expense	es exceed Earnings	
Earning	s exceed Expenses	88 45 88 88
	Total.	\$550 604 585 90 585 90
	All other Expenses.	\$550 00 175 00
	Sickness	90 93 90 93
	Recreation	38 5
	Tobac'o and Liquors	
XPENSES.	Education (including papers)	\$10 00 10 00
Exp	Clothing and Dry Goods.	\$100 00 125 00
	Meat and Vegeta-	38 39 36
	Groceries	\$144 00 135 00
	Fuel and Lights	98 98 99
	Rent	\$60 00 100 00
YEAR.	Total	\$550 00 612 00 600 00
WAGES FOR YEAR.	Young Persons	
WAGE	Adults	
No. SARN'G WAGES	Young Persons	
	Adults	
EB	Total	41000
TMBEB 1N AMILY.	Young Persons	6185-
ΣΞ	Adults	018161
Number	of Blank	1.212

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Expense	s oxcood Earnings	#10 000 11 000 10 000 837 540
Earning	gs exceed Expenses	\$25 00 175 00 112 00 112 00 112 00 150 00 151 00 151 00
	Total	### ### ### ### ### ### ### ### ### ##
	All other Expenses.	275 00 00 00 00 00 00 00 00 00 00 00 00 00
	Sickness	25
,	Recreation	25 25 25 25 25 25 25 25 25 25 25 25 25 2
	Tobac'o and Liquors	88 88 88 108 108 108 108 108 108 108 108
Expenses.	Education (including papers)	23-25 1983 4 1983 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Expr	Clothing and Dry Goods	\$2523 \$2565 \$3553 \$2565 \$3553 \$3555
	Meat and Vegeta- bles.	28282
	Groceries	25.25
	Fuel and Lights	888 888 3 48 84 84 84 84 84 84 84 84 84 84 84 84
	Rent	269 98 199 199 199 199 199 199 199 199 199
· TEAB.	Total	256 98 98 98 98 98 98 98 98 98 98 98 98 98
Wages for Year.	Young Persons	00 0538
WAG	Adults	
No. EARN'G WAGES	Young Persons	
N ≅ N	Adults	
ER LX.	Total	<u></u>
UMBER IN PAMILY.	Young Persons	44888888888484848888888888888888888888
Z F4	Adults	2 4 7 7 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7
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Expenses exceed Earnings		5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Earnings exceed Expenses		\$115 00 48 00 246 00 667 20 260 00
 	Total	25.00 24.40 24.40 25.00
	' All other Expenses.	85 52 50 50 50 50 50 50 50 50 50 50 50 50 50
	Sickness	78 58 58 588 88 58 58 588 88 58 58 58 58
	Recreation	20 00 00 00 00 00 00 00 00 00 00 00 00 0
i .	Tobac'o and Liquors	#10 00 #258 #10 0
Expenses	Education (including papers)	220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Exp	Clothing and Dry Goods	155 00 1100 00 1100 00 1100 00 1100 00 1100 00
	Meat and Vegeta- bles	25 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Groceries	200 00 200 00 200 00 200 00 200 00 100 00 200 00 200 00
	Fuel and Lights	544273 £27888 5888 58888
	Rent	\$96 00 100 00 168 00
YEAR.	Total	#740 00 600 00 600 00 408 00 448 00 448 00 940 00 112 00 896 00 1,000 00
WAGES FOR YEAR.	Young Persons	\$200 00 96 00 240 00
WAGE	Adults	\$12 00 700 00
O.K.	Young Persons	64 ::: H : H : H : H : H
EAR	Adults	: יייייייייייייייייייייייייייייייייייי
MBER IN MILY.	Total	○ ○ 4 6 4 6 4 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8
	Young Persons	ಯ ನಷ್ಟದ ಭಾಗು : ಪಾರ್ಣಕ್ಕೆ ಪಾರ್ಣಕ್ಕೆ :
N. FA	Adults	; ಚಟನಾಬಲುಬ⊣ ;ಚಬ-4
Numbe	r of Blank	

EMPLOYES IN CLOTHING FACTORIES.

Expens	ses exceed Earnings	9 9 #
Earning	gs exceed Expenses	1152 40 1252 40 1250 60 1250 6
	Total	28
	All other expenses.	#38 88 80 80 80 80 80 80 80 80 80 80 80 80
	Sickness	80 00 00 00 00 00 00 00 00 00 00 00 00 0
	Recreation	25
	Tobac'o and Liquors	#30 00 10 00 10 90 60 00
EXPENSES	Education (including papers)	\$25.50 15.50 10.50
Exp	Clothing and Dry Goods	\$73 15 00 15 00 200 00 200 00 200 00 50 00 75 00 75 00 76 00
	Meat and Vegeta- bles	\$280 00 1150 00 1250 00 1250 00 1250 00 1250 00 1250 00 1250 00 1250 00 1250 00 1250 00
	Groceries	855 86 156 86 156 86 156 86
	Fuel and Lights	85 88 88 88 88 88 88 88 88 88 88 88 88 8
	Rent	\$21 00 280 00 280 00 99 00 190 00 180 00
YEAB.	Total	### 1988 99 99 99 99 99 99 99 99 99 99 99 99
WAGES FOR YEAR.	Young Persons	\$20 00 250 00
WAGE	Adults	\$520 00
No. EARN'G WAGES	Young Persons	
Æ ¥	Adults	
EB	Total	011000ULWUL420LW4
UMBER IN AMILY	Young Persons	4 : 44 : : : : : : : : : : : : : : : :
ZÃ	Adults	<u> </u>
Number	of Blank.	20 20 20 20 20 20 20 20 20

Expense	s exceed Earlings	:
Parkings	exceed Expenses.	
	Total	CHO CHICA
	All other Expenses	00 E1#
	Siekness	(1)
•	Beereation	::
	Tobac'o and Liquors	25 25 25 25
电阻 电 发射	Education, fineluding papers	.g
Kar	Clothing and Dry Goods	8 8 8 8
	Meat and Vegeta- bles	00 00
	Groceries	6176 00
	Fuel and Light	00 000
	Bent	00 SP E
H N	Total	99 99 99 99 99 99 99 99 99 99 99 99 99
es for Year	Young Persons	::
WAGI	Adults	
No. Earn's Wager	Young Persons	
E E	Adults	
E E	Total	
VUMB IN FAMIL	Young Persons	.es
Z H	Adults	
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EMPLOYES IN GRAIN ELEVATORS.

Expens	es exceed Earnings	\$12 00
Earning	gs exceed Expenses	\$550 00 87 00 87 00 87 00 87 00 87 00
	Total	88.25.00
	All other Expenses.	6 88 88 88 88 88 88 88 88 88 88 88 88 88
•	Sickness	17 % % % % % % % % % % % % % % % % % % %
	Recreation	\$10 00 25 00 5 00 20 00 40 00
	Tobac'o and Liquors	\$15 60 15 br>15 15 15 15 15 15 15 15 15 15 15 15
Expenses	Education (including papers)	\$100 00 \$100 00 \$100 00 \$100 00 \$100 00 \$20 00 \$7 00
EXP	Clothing and Dry Goods	\$100 00 \$40 00 \$100 00 \$20 00 \$00 \$00
	Meat and Vegeta- bles	20
	Groceries	\$100 00 75 00 25 00 1100 00 12 00 12 00 12 00
	Fuel and Lights	26.00 26.00
	Rent	\$80 00 500 00 500 00 500 00 36 00 36 00
YEAB.	Total	# \$72 \$72 \$72 \$72 \$72 \$72 \$73 \$73 \$73 \$73 \$73 \$73 \$73 \$73
WAGES FOR	Young Persons	
	Adults	
No. EARN'G WAGES	Young Persons	
AE N	Adults	<u> </u>
EB LY.	Total	: :004 :0040 : :400 : :
TOMBER IN AMILY.	Young Persons	
Z ^E 1	Adults	
Number	r of Blank	12824.00 12824.00 12844.00 128

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Expenses exceed Earnings.		<u> </u>	
Earning	Earnings exceed Expenses		
	Total	1.380 00 1.380 00 1.380 00 484 80 00	
	All other Expenses.	\$100 00 650 00 30 00	
	Sickness.	118 00 118 00	
	Recreation	29 9	
m².	Tobacco and Liq'rs.		
Expenses.	Education (including papers)	12 80 12 80 12 90 12 90	
Ex	Clothing and Dry Goods	25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	
	Meats and Vegeta- bles.	196 90 196 90 45 90	
	Groceries	\$100 00 150 00 50 00	
	Fuel and Lights	88 88 98 98	
	Rent	00 09\$	
EAB.	Total	1,878 00 1,878 00 120 00 484 80	
WAGES FOR YEAR.	Young Persons		
WAGE	Adults		
O, RN'G GEB.	Young Persons	-	
MA MA	Adults	20004	
UMBER IN AMILY.	Total		
	Young Persons	10000	
Z F4	Adults		
Number	of Blank	(c) 20 -4	

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Expense	es exceed Earnings	\$2 00 50 00 108 00 117 00 117 00 11 60 89 60 89 60
Earning	s exceed Expenses	88 88 89 90 90 90 90 90 90 90 90 90 90 90 90 90
	Total	64888888888888888888888888888888888888
	All other Expenses	2
	Sickness	13
	Recreation	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
•	Tobacco and Liquors	25.25
Expenses.	Education (including papers).	2 2 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Exp	Clothing and Dry Goods	22. 33. 34. 35. 35. 35. 35. 35. 35. 35. 35. 35. 35
	Meat and Vegetables	38 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Groceries	255252 26
	Fuel and Lights	828888 88888 88888 8 8 8 8 88888 888888 88888 88888 8 8 8 8 8
	Rent	\$\frac{9}{2}\$ \times \frac{9}{2}
EAB.	Total	2426788666788678888888888888888888888888
WAGES FOR YEAR.	Young Persons	83 89 88 99 10 10 10 10 10 10 10 10 10 10 10 10 10
•	Adults	2
No. EARN'G WAGES	Young Persons	
MEA.	Adults	
EER	Total	40001-10000040001111001500400
NUMBER IN FAMILY.	Young Persons Adults	
-	of Blank	

Expens	es exceed Earnings	5 00
Earning	gs exceed Expenses	23 05 28 28 28 28 28 28 28 28 28 28 28 28 28
	Total	28888888888888888888888888888888888888
	All other Expenses.	151751 15
	Sickness	29 09 00 00 00 00 00 00 00 00 00 00 00 00
	Recreation	25.35 25.35 25.35 25.35 35 35.35 35 35 35 35 35 35 35 35 35 35 35 35 3
	Tocac'o and Liquors	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Expenses.	Education (including papers)	4481 80 80041 00 440 2000000 8
Exp	Clothing and Dry Goods	200
	Meat and Vegeta- bles	1242 3 355 2 5858 5418 2858 3 585 3 5858 5858
	Groceries	26 28 28 28 28 28 28 28 28 28 28 28 28 28
•	Fuel and Lights	8252555 525 525 525 525 525 525 525 525
	Rent and Taxes	86 90 90 90 90 90 90 90 90 90 90 90 90 90
EAB.	Total	255 255 255 255 255 255 255 255 255 255
WAGES FOR YEAR.	Young Persons	50 00 125 00 300 00 620 00 500 00
WAGE	Adults	700 00 375 00 1,000 00 1,000 00 214 00 144 00 144 00 172 00 300 00 300 00 100 00
No. ABN'G	Young Persons	1
EAB	Adults	
Y.	Total	<u> </u>
NUMBER IN FAMILY.	Young Persons	2004 - 1200 CONTROLLE 1400 140
N.	Adults	
Number	r of Blank	5883886885444444446

LABORERS—Continued.

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Expense	es exceed Earnings	25.58.58.59.59.59.59.59.59.59.59.59.59.59.59.59.
Earning	s exceed Expenses	\$164.00 125.50 25.00 271.70 88.00
	Total	25
	All other Expenses.	8 8 8 88 8 9 9 9 9 9 8 8 8 8 8 8 8 8 8 8
	Sickness	28
	Recreation	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Tobac'o and Liquors	6 8 8 8 88 88 88 88 88 88 88 88 88 88 88
Expenses	Education (including papers)	89 88 88 88 88 88 88 88
EXP	Clothing and Dry Goods	8 36 <t< td=""></t<>
	Meat and Vegeta- bles	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Groceries	20 00 00 00 00 00 00 00 00 00 00 00 00 0
	Fuel and Lights	2 22228 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Rent or Board	28 28 28 28 28 28 28 28 28 28 28 28 28 2
EAB.	Total	\$28882888288248248252424288888888888888 848888888888
WAGES FOR YEAR.	Young Persons	\$250 80 110 00 315 20 00 450 00
	Adults	98 98 98 98 98 98 98 98 98 98 98 98 98 9
O. R.N.G.	Young Persons	
No. EARN'G WAGES	Adults	
	Total	HT CONTROL OF AND SHORT AND SHORT HEND COL
NUMBER IN FAMILY.	Young Persons	: : : : : : : : : : : : : : : : : : :
	Adults	
Price pe	er Bushel—Cents	488348480480048000000000000000000000000
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Expense	es exceed Earnings	74 00
Earning	s exceed Expenses	88 182 88 88 88 88 88 88 88 88 88 88 88 88 88
	Total.	1, 266 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	All other Expenses.	88
	Sickness	25 60 60 15 80 10 80 80 10 80 80 11 80 80 11 80 80 11 80 80 80 11 80 80 80 80 80 80 80 80 80 80 80 80 80
	Recreation	20
	Tobacco and Lig'rs.	8 888 8 888
Expenses.	Education (including papers)	6 00
Exp	Clothing and Dry Goods.	
,	Meat and Vegeta- bles	200000000000000000000000000000000000000
	Groceries	26 32 32 32 32 32 32 32 32 32 32 32 32 32
	Fuel and Lights	24 8 641 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Rent	4 82 288 8 28 3888
EAB.	Total	1, 255 88 88 88 88 88 88 88 88 88 88 88 88 8
WAGES FOR YEAR.	Young Persons	
WAGE	Adults	
No. EARN'G WAGES	Young Persons	
MEA.	Adults	
ER.	Total	&usyrana4r
A LAND	Young Persons	2-0222-03022-03
Z F	Adults	74. 10:::
Price p	er Bushel—Cents	40404440 : 4
Number	of Blank	88888888888

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Expenses exceed Earnings	38 90 182 90 188 90 188 90 5 90 74 90	
Earnings exceed Expenses	88 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
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WAGES FOR YEAR.		•
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COAL MINERS—Continued.

EMPLOYERS' RETURNS.

The following tables show the returns of employers made to this Bureau, as to the number of persons employed by each; their classification as to branches of industry; the average wages paid in each branch; the number of weeks employed in the year; the total amount of wages paid in 1879; value of production, and the capital invested in business. While the returns are incomplete in some respects, your Commissioners have every reason to believe that the figures given as to the condition of the different industries are correct.

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Val F	ue of Productions iscal Year ending J 1880.	for uly	\$200,000 115,000 125,0
Tot	tal Amount of Wages F	aid	8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
Nu	mber of Weeks Emplo	y'd	252-55
٠	Persons Under 16	F.	
IN 1879.	Years of Age	M	47 7 88 88 88 88 88 88 88 88 88 88 88 88
AGEB,	Uuskilled Empl'yes Over 16 Years of	£	
WEEKLY W.	Age	N	8 10 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
	Skilled Employes Over 16 Years of Age	F.	00 14
GE IN		M.	#15 00 15 00 16 00 17 00 17 00 18 00 18 00 19 00 10 00 1
AVER	Persons in Charge	댐	
	of Departments		20 00 11 18 00 00 00 00 00 00 00 00 00 00 00 00 00
EMPLOYES.	Persons Under 16 Years of Age	M, F.	පි : :ශාල්පියනු re යා ලා re :-
EMPI	Unskilled Empl'yes Over 16 Years of	돈	
ON OF	Age	Ä.	4 12 0 1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3
TCATI	Skilled Employes Over 16 Years of Age	M. F.	5 5 6 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CLASSIFICATION	Persons in Charge of Departments	표	80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-	mber of Employes	×	<u>27-557.00828868887827.857.85878000008</u>
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ware 85 6 7 18 10 10 10 12 1 18 10 10 10 10 10 10 10 10 10 10 10 10 10	Se-powers 155 Sre-powers 165 Transparatus	16 850 15 10 10 10 10 10 10 10 10 10 10 10 10 10
2 1 2 2 2 1 2 2 2 1 2	horse-powers 155 horse-	1 85 16 16 17 16 17 16 17 16 17 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17

IRON AND METAL WORKERS AND MANUFACTURERS.

nvested in Busin	iess	\$150,000 \$15
Productions Year ending J	for	\$200,000 115,000 125,000 127,0
ount of Wages F	aid	88. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
of Weeks Emple	y'd	225422 12 1252224 12 12 12 12 12 12 12 12 12 12 12 12 12
ons Under 16	F.	
ars of Age	M.	28 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
filled Empl'yes	F.	
er 16 Years of	M.	65 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Skilled Employes Over 16 Years of Age	E.	8
	M.	15 00 15 00
Persons in Charge of Departments.	표.	
	M.	88 8 8 888 8 8 8 8 8 88 8 8 8 8 8 8
Persons Under 16	F	—; a. a. p. a. p. a. p. p. a. p. p. a. p.
Unskilled Empl'yes Over 16 Years of	M,	=
	M. F.	4 12 1 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
	11.0	
er 16 Years of	M.	9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Persons in Charge	H	
of Departments		20 C C C C C C C C C C C C C C C C C C C
of Employes		발
ArticlesjManufactured.		Type foundry Wind and feed milis Steam engine bollers etc Saws and butchers tools. Castings, etc. Braiss castings Engines and boilers. Braiches and boilers. Engines and minig mach ry Locks brands, etc. Boilers, tanks, etc. Wind mills Boilers, tanks, etc. Wind mills Stores and hardware Boilers, tanks, etc. Wind mills For an grauges Stores and hardware Boilers General joobing shop General joobing chop Horsting elevators. Castings, etc. Castings, etc. Castings, etc. Castings, etc. Astend prass founders Hosting elevators. Elies and rasps. Heating apparatus. Wire work, all kinds Street lamps.
	Productions Year ending J ount of Wages F of Weeks Employe ons Under 16 ars of Age cilled Emplyes er 16 Years of e ons Under 16 ars of Age cilled Emplyes er 16 Years of e of Weeks Employ'd ons Under 16 ars of Age diffed Empl'yes er 16 Years of er	

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Builders' hardware Fol'ing beds Fron working machinery. Wood-working machinery. Met'ldies, stricils and st'mps Tin and sheet iron Mill machinery Copper and iron. Steam heating apparatus. Galvanized iron. Steam heating apparatus. Galvanized iron. Wrought iron pipe.	Gold, silver, and copper ormanents. Hot air furnaces Engines and horse-powers. The cans, etc. General foundry Grain drills. General jobbing. Wheat cleaners. Iron pipe. Iron pipe. Stoves atc. Stoves atc. Stoves atc. Stoan-heating apparatus Scales, trucks, etc. Steam-heating apparatus Scales, trucks, etc. Steam-heating apparatus Scales, trucks, etc. Steam drills Barbed fence wire. Steam drills Rolling mill machinery. Steam engines Galvanized iron. All kinds of cutting dies. Light castings. Stove trimmings Galvanized iron works Light nachinery. Wrought iron pipes Foot-power. Engines mills etc. Mill machinery. Mill repaire. Mill machinery. Mill repaire. Mill machinery. Mill repaire.
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l Workers an
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Car	pital Invested in Busin	ess	\$25000000000000000000000000000000000000
Fi	ue of Productions scal Year ending J 1880	uly	94 112 112 112 100 100 100 100 100 100 100
Tot in	tal Amount of Wages I 1879.	Paid	200 200 200 200 200 200 200 200 200 200
Nu	mber of Women Empl	oy'd	
ď	Persons Under 16	F.	
IN 1879.	Years of Age	Ä	88 88 89 89 89 89 89 89 89 89 89 89 89 8
AGES, 1	Unskilled Empl'yes Over 16 Years of	F.	
⋉	Age	M.	6 6 6 6 6 6 6 7 7 7 7 5 6 6 6 6 6 6 6 6
WEEKLY	Skilled Employes Over 16 Years of Age	F.	
Z	Age	M.	111 60 60 61 61 62 62 63 63 64 64 64 64 64 64 64 64 64 64 64 64 64
AVERAG	Persons in Charge of Departments	F.	
		M	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
OF EMPLOYES.	Persons Under 16 Years of Age	M F	
EMPL	Unskilled Empl'yes Over 16 Years of	F	
NOF	Age	M	2 1100 1100 1100 1100 1100 1100 1100 11
CLASSIFICATION	Skilled Employes Over 16 Years of Age,	M F	8
ASSIL	Persons in Charge	<u>[1</u>	[10] 11301 1000 1 4 2000 0104H 01
~	Departments mber of Employes	M	- 0128.0188.456.888.888.88.05.05.05.05.05.05.05.05.05.05.05.05.05.
- IV u			
-	Articles Manufactured		E. Plumbing, etc. S. Copper, etc. S. Jopper, etc. S. Steam engines S. Steam of all knots S. Steam of all knots S. Steam machinery S. Steam machinery S. Steam machinery S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam boiler. S. Steam ongrines S. Steam engines S. Castings, etc. S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines S. Steam engines

30,500 90,000	10,000	1,000	8	8,000	•	1,200	20,000	8,000	1.000	30,000	
38, 500						:		28,000	14,000	45,000	
5,100 16,950	7.275	1,000	3,750	12,000		<u>98</u>	17.800	8,000		10,400	
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112. Steam engines	14. Stoves, etc.	15. Tools, etc.	16. Iron works.	17. Bolts and nuts	18. Locks, keys and brass cast-	ings	19. Malleable iron	120. Iron castings and wind mills	21. Castings and repairs	22. Machinery, boilers, etc	

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Capital Invested in Business;			25. 90. 90. 90.	88. 88. 88.	360,938 300,938	180 000	20,000	99 99 99	38 38	2,00 000 000	85 888	15'4. 888	100,000
Val Fis 1, 1	Value of Productions for Fiscal Year ending July 1, 1880				350,000 350,000	900 000	<u> </u>	20,000 14,000		2,400	7,500	2,400 004,000	100,000
Tot	al Amount of Wages I 1879	Pald.	45, 125 6,000	5,4,8 5,83 8,83 8,83 8,83 8,83 8,83 8,83 8,	ส์ส์	1 2	9,140	(col.	<u>د</u> م		වූ දැ		ųŠĮ
Nu	mber of Weeks Emplo	o y 'd			:232	3232	322	322	333	22	3333	3445	20
1879.	Persons Under 16 Years of Age	E.		::	<u>: :</u>				::5		::		
ä		×			11.	<u> </u>	<u> </u>		<u> </u>	· ! !	#		<u>! : </u>
WAGES,	Unskilled Empl'yés Over 16 Years of Age	H.	8	8 :				8:	7 50		8 : 8 :		88
VERKLY	Skilled Employée		33 : '	∞ <u>:</u> <u>: :</u>		옥 <u>:</u> ::::	21	23			- :	2 '	10
BE IN W	Skilled Employés Over 16 Years of Age	Ä	- •	8 :	11 80		88 88 88		2		9		15 00
AVERAGE	Persons in Charge	편				.61							
	of Departments	Ħ		\$18 00	85 00	88			9 2			 88 88 	20 00
EMPLOYES.	Persons Under 16 Years of Age	E.	- : :	<u>::</u> ::	<u>::</u> ::	<u>: :</u> : :	<u>: :</u> : :	<u>: : :</u> : : :	<u>∷</u>	:	<u> </u>	<u>: : :</u> : : : :	<u>::-</u>
EMPI	Unskilled Empl'yés Over 16 Years of		40						59 :00		<u> </u>		
ON OF		2	-::	<u>:</u>	11	¥ ;	: °	7				188 :°	7
CLASSIFICATION	Skilled Employés Over 16 Years of Age	Ä Fi	44	₹ <u>~</u> {	: : 88°	: : • !	96	900	» : <u>«</u>		-i :	8 :	: :- : : :
LABBI	Persons in Charge of Departments	1 - 1	:00	<u>:</u> ອ :	:4.	::: -=8) (3)	<u> </u>	 9. : T		63	1001	.3 .30
<u> </u>	mber of Employés	×	-: 	: ~8	₹ ₹			920	3 ₹ 8	<u></u>	4100	1800	8
Artioles Manufactured.			ager beer and malt.				noi aptitus, etc	nd porter r beer and malt	:::		and ci	and porter	Sar
Number of Blank				; ; ; ;;;;		7	10. Beer	12 Ale an 13 Lager		18	Cide	SS. Alcoh	26 Beer

Capital Invested in Business		ıess	2000 2000 2000 2000 2000 2000 2000 200
Value of Productions for Fiscal Year ending July 1, 1880		for y 1,	#300, 0000 1220, 0000 27, 0000 28, 0000 28, 0000 26, 0000 18, 0000 18, 0000
Total Amount of Wages Paid in 1879		Paid	22,200 22,246 22,246 22,246 24
Nu	nber of Weeks Emplo	y'd.	2222222442
r 1879.	Persons Under 16 Years of Age	M. F.	80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
WAGES, IN 1879.	Unskilled Empl'yes Over 16 Years of		బ్హాలు చాకక
LY W	Age	M.	10 00 00 00 00 00 00 00 00 00 00 00 00 0
WEEKLY	Skilled Employés Over 16 Years of	ъ.	708 6
E IN	Age	M.	2000 111 110 00 00 00 00 00 00 00 00 00 0
AVERAGE IN	Persons in Charge of Departments	F.	20 00 00 00 00 00 00 00 00 00 00 00 00 0
◀		M.	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
YES.	Persons Under 16 Years of Age	Ħ.	444
MPLO		-	
CLASSIFICATION OF EMPLOYES.	Unskilled Empl'yés Over 16 Years of Age	M. F	2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
ATTON	Skilled Employés	Ħ.	28,51
SIFIC.	Over 16 Years of Age	· ·	. 828 58888
CLAS	Persons in Charge of Departments	M. F.	2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2
Nu	nber of Employés	'	55258 3128 318 828 828 828 828 828 828 828 828 828 8
Articles Manufactured.			All kinds of leather Boots and shoes Ladies' and children's shoes. Saddlory Sole-leather, etc. Harness, saddlery
Number of Blank			

MILLS.	
AND	
YARDS	
LUMBER	

Car	oital Invested is Busin	1088	######################################
Val F 1,	ue of Productions iscal Year ending J 1880.	for July	\$17,000 \$3,000 \$5,000 \$25,000 \$25,000 \$1,000 \$1,000 \$3,500
Tot in	al amount of Wages I	aid	63.000 6.0000 6.00000 6.0000 6.0000 6.0000 6.0000 6.00000 6.0000 6.0000 6.0000 6.0000 6.00000
Nui	mber of Weeks Emplo	yed	333 334433 3 3334 33
	Persons Under 16	뚄	
v 1879.	Years of Age	Ä	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
AGES IN 1879.	Unskilled Emplyes Over 16 Years of	ᅜ	
*	. Age	Ŕ	66 9 27 16 82 68 68 68 68 68 68 68 68 68 68 68 68 68
WEEKLY	Skilled Employes Over 16 Years of Age	뎌	
ARERAGE		zi	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
ARE	Persons in Charge of Department	됸"	δ
	or Department	zi _	3
EMPLOYES	Persons Under 16 Years of Age	M. F.	
EMP	Unskilled Empl'yes Over 16 Years of	 -	
N OF	Age	Z	678.89.77. 123.41 : : : : : : : : : : : : : : : : : : :
CATIO	Skilled Employes Over 16 Years of Age	Ä.	යැගීන 'ප්ජිප : 4 :හුන 'හුදීන්ට්හනප :වන
ASSIFICATION	Persons in Charge	Fi	(a) (b) (a) (a) (a) (a) (b) (a) (b) (a) (a) (a)
<u>5</u>	of Department mber of Employes	×	2 15 2 25 25 1 1 2 2 3 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	Articlos Manufactured.	•	Oak, ash and water lumber Lumber Yard Lumber, and boxes Oak Lumber. Oak lumber Flooring, siding, Pickets, et
Nu	mber of Blank		138476C855122247518592382382

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Car	ital Invested in Busin	ess	1,000
Val F. 18	ue of Productions iscal Year ending Jul 80	2, 500 1, 200 35, 000 2, 500	
Tot	al Amount of Wages l June, 1879	#615 2, 590 675 1, 400	
Nuc	nber of Weeks Emplo	yed	388
	Persons Under 16	154	
N 1879	Years of Age	K,	\$6 00
Average in Weekly Wages, in 1879.	Unskilled Employes	Ħ	
LY WA	Over 16 Years of	M.	\$3 \$0 \$4
Weer	Skilled Employes Over 16 Years of Age	Ä.	
ok in		Ж.	\$6 00 12 00 8 00
VEBA	Persons in Charge of Departments	F.	
•		M.	\$18 00
YES.	Persons under 16 Years of Age	<u>F</u>	
KPLO		F. K	1
ASSIFICATION OF EMPLOYES	Unskilled Employes Over 16 Years of Age		
TION	Skilled Employes Over 16 Years of	Ħ	21 .04
IFIC.	Age	Ä	
JLA8E	Persons in charge of Departments	M.	
Nur	nber of Employes at o	late	8044
fanufactured.			
	Articles M		Cigars
Nur	nber of Blank	!	4348

Comp	itai Invested in Business	15
Vai Pi	ne of Productions for cal Year ending July	000 - 000 1
	al Amount of Wages Paid 167)	64 X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Xw	nber of Weeks Employ'd	322
ا ج	Persons Under 16	
TH IN	Years of Age	: :82
WEEKLY WAGER, IN	Unskilled Emplyes Over 16 Years of —	
XI.Y W	Age	28
	Skilled Employes Over 16 Years of —	::::::
ACIE IN	Age	:::::::::::::::::::::::::::::::::::::::
ATERACE	Persons in Charge of Departments	
ij,	× +	9 : 3
PLOYE	Years of Age	- S
TION OF EMPLOYE.	Over 16 Years of	10.08
MOLLY	Skilled Employes & Over 16 Years of	
BIFTC	Age	::04 ::3
3	Persons in Charge of Departments	8
Nu	nber of Employés	
	Articlos Manufactured.	Lime Brick All kinds of brick Marble work and monuments
Nu	nber of Blank	-aa-4-aa-

BRICKS AND STONES.

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Capital Invested in Business		\$20,000 6,000 110,000 8,500 6,000 6,000	
Val Fig 1, 1	Value of Productions for Fiscal Year ending July 1, 1880.		\$100,000 14,000 504,843 13,000 8,000
Tot in	al Amount of Wages l	Paid	\$7,000 15,000 15,000 18,835 18,600 18,504 1,200 1,200
Nui	nber of Weeks Emplo	y'd.	40 52 52 52 52 52 52
6	Persons Under 16	F.	
1N 18	Years of Age	Ä	83 00
Average in Wrekly Wages, in 1879.	Unskilled Empl'yes Over 16 Years of	표	# 4 00
KLY V	Age	Ħ.	9\$
WRE	Skilled Employes Over 16 Years of Age	표	00 9 00 9 00 9
GE IN		M.	\$10 00 9 00 21 00 10 00
AVERA	Persons in Charge of Departments	Ħ	\$ 9 00 7 4 00
		Ж.	122 99
YES.	Persons Under 16 Years of Age	F.	
Pto		×	
Ē	Unskilled Empl'yes Over 16 Years of	Fi	<u> </u>
M O	Age	Ä	
ABBIFICATION OF EMPLOYES	Skilled Employes Over 16 Years of	<u>Fi</u>	8 × × ×
LIC	Age	Ä	
ABB	Persons in Charge	14	
벙	Departments	Ħ	1 13 3
Nu	nber of Employes	• • • • •	2008 7 8 2 1 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4
Articles Manufactured.			Soaps Pancy soaps Baking powder, etc Corks Family medicines Artificial limbs.
Nu	mber of Blank		

Car	oital Invested in Busin	ess	100,000 100,000 100,000 100,000 100,000 100,000
Val Fi 1,	ue of Productions iscul Year ending J 1889.	for uly	25.000 11(1), 000 70, 000 25, 000 28, 000 150, 000 150, 000 150, 000
Tot in	al Amount of Wages P	aid	25.25 20.05
Nu	mber of Weeks Emplo	à, g	424 82 62 8 66 66 68
	Persons Under 16	F,	00
AVERAGE IN WEEKLY WAGES, IN 1879.	Years of Age	M.	#3 50 00 4 00
AGES,	Unskilled Emplyes Over 16 Years of	1	630000
KI,Y W	Age	Ж,	233823 : 33 2000 cm 20 : 33
WEE	Skilled Employes Over 16 Years of Age	P	
GE IN		M,	22 23 24 4
AVERA	Persons in Charge of Departments Persons Under 16 Years of Age Unskilled Empl'yes Over 16 Years of	₽,	
		M.	8 :88888888 8 :888888888
oves,		M, F,	
Empl		Œ	
N OF	Age	×	8 8 4 2 4 4
CLASSIFICATION OF EMPLOYES	Skilled Employes Over 16 Years of Age	M, F	80 10 10 10 10 10 10 10 10 10 10 10 10 10
ABBIF	Persons in Charge	F,	@ .00 → 64 → 44 → 4000 ¢4
	of Departments mber of Employes	×	28 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1141	most of Disploy co		
	nufactured.	semanj pue se	
	Articles Manufe		White lead Steined glass Paints, etc. Stained glass Paints, etc. Signs, etc. Signs, etc. Mineral paint Window glass
Nu	nber of Blank		HGE 4400-0000

PAINT, GLASS, ETC.

Capital Invested in Business

\$25, 90 6,000 1,000 150,000 155,000 11,000 3,000 3,000

75,000

26,000

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20

23

Carpenters Chairs, settees, bureaus and

			l	
	Val Fi 1,	ue of Productions iscal Year ending J 1880	for uly	255, 000 225, 000 225, 000 225, 000 350, 000 350, 000 20, 000 20, 000
	Tot in	al Amount of Wages I 1879	aid	\$1,355 12,000 2,000 422,000 54,000 5,800 1,865
	Nu	nber of Weeks Emplo	y'd.	47
	9.	Persons Under 16	퍈	
	IN 187	Years of Age	Ä.	9\$
38.	WAGES, IN 1879.	Unskilled Employes Over 16 Years of	땬	
KEI	KLY W	Age	Ħ	\$9 00 7 50 9 06 6 00 6 00
LDERS AND CABINET MAKERS	WEEKLY	Skilled Employes Over 16 Years of	Ħ.	\$5 00 4 50
NET	GEIN	Age	M.	\$10 50 12 00 10 00 10 00
ABII	AVERAGE IN	Persons in Charge of Departments	Æ	00 9 00 6
D C	·		ĸ.	\$17 00 24 00 15 00 14 00 15 00
AN	OYES.	Persons Under 16 Years of Age	M. F.	:8:
RS	CLASSIFICATION OF EMPLOYES	Unskilled Employes Over 16 Years of Age Skilled Employes Over 16 Years of Age	F.	
LDI	ON OF		×	15 15 1 3 1 3
BUI	CATIC		M. F.	85 25 83 83 83 83 83 83 83 83 83 83 83 83 83
	ASSIF	Persons in Charge	Fi	4 . 0401 . 0
	<u> </u>			20 12 29 29 29 12 20 10 10 10 10 10 10 10 10 10 10 10 10 10
	Nur	nber of Employes	••••	
		Articles Manufactured.	Builders Coffins and caskets Coffins and caskets General repair, building General contractors Burial caskets and cases Upholstery Tanks Cabinet ware	
				HCOOM PHOO

Number of Blank ..

Capital Invested in Business			\$200 500 500 100,000
Val Fi 18	ue of Productions iscal Year ending Jul 80	for ly 1,	\$4, 000 200, 000
Tot in	al Amount of Wages I 1879	aid	#35, 848 40, 000
Nur	nber of Weeks Emplo	y'd	3243
	Persons Under 16	Fi	
IN 1879.	Years of Age	¥	3 3 2 3 3 3 3 3 3 3 3 3 3
Weekly Wages, in	Unskilled Empl'yes Over 16 Years of	Fi	00 6
TX M	Over 16 Years of Age	Ä	
WEEK	Skilled Employes	<u> </u>	
VEBAGE IN	Over 16 Years of Age	¥	\$6 00 15 00
VEBA	Persons in Charge of Departments	F4	
		×	\$18 00 6 75 80 00
OYES.	Persons Under 16 Years of Age	<u>F4</u>	8
EMPL	Years of Age	F. X	
N OF	Unskilled Emplyes Over 16 Years of Age	Ä	10
ABBIFICATION OF EMPLOYES	Skilled Employes Over 16 Years of Age	Α. Ε.	Stoke
ABBIF	Persons in Charge	E	::::
덩	of Departments nber of Employes	Ħ	
	rticles Manufactured.		
Nu	D THE STATE OF Blank		1 Brooms

BUTTONS.

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Car	\$35, 000		
Va ¹ Fi	ue of Productions iscal Year ending J 1880.	for uly	\$57,438
	al Amount of Wages P	aid	\$20,260
Nu	mber of Weeks Emplo	y'd	22
6	Persons Under 16	ß.	
IN 1879.	Years of Age	Ķ	
AGES,	Unskilled Empl'yes Over 16 Years of	Ħ	
LY W	Over 16 Years of Age	×	
AVERAGE IN WEEKLY WAGES, IN	Skilled Employes	균.	
E IN	Over 16 Years of Age.	Ä.	
VERAG	Persons in Charge	F.	\$9 50
A.	of Departments	Ä.	\$19 00
YES.			
EMPLOYES	Years of Age	<u>F4</u>	<u>:</u>
OF E	Unskilled Empl'yes Over 16 Years of Age	F.	
NOLL	Skilled Employes Over 16 Years of	ᄄ	
TCAT	Over 16 Years of Age	K.	:
SBIT	Persons in Charge	퍈	61
CIT	of Departments	×	8
Nu	mber of Employes		- 8
	Laundry machinery		
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Value of Productions for Fiscal Year ending July 1. 1880. 18	Capital Invested in Business		25, 000 10, 00	
Number of Weeks Employed Persons Under 16 Years of Age	Val F 18	ue of Productions iscal Year ending Jul 80.	for y 1,	#88 7, 01 88 8 17, 188 7, 188 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Number of Weeks Employed Persons Under 16 Years of Age	Tot	al Amount of Wages I	Paid	5
Persons Under 16 Years of Age Unskilled Employes Over 16 Years of Age O	Nu	mber of Weeks Emplo	yed	229
Over 16 Years of Age Same Same Same Same Same Same Same Sam	6		E	
Over 16 Years of Age Same Same Same Same Same Same Same Sam	187 187	Years of Age	¥	
Over 16 Years of Age Same Same Same Same Same Same Same Sam	AGES,	Unskilled Employes	표	
Over 16 Years of Age Same Same Same Same Same Same Same Sam	LY W	Age	į	
Persons in Charge of Departments. Persons Under 16 Years of Age. Unskilled Employes 4 Over 16 Years of Age. Skilled Employes 5 Over 16 Years of Age. Persons in Charge of Departments. Number of Employes. Persons in Charge of Departments. Persons in Charge		Skilled Employes	며	
Or Departments	GE IN	Over 16 Years of	K.	(00)
Or Departments	AVERA	Persons in Charge of Departments	Œ.	88 66
Unskilled Employes & Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot Ot	_		K.	
Number of Employes 9 50 50 50 50 50 50 50 50 50 50 50 50 50	YES.	Persons Under 16 Years of Age.		1 10 10
Number of Employes 9 50 50 50 50 50 50 50 50 50 50 50 50 50	KPIC			<u> </u>
Number of Employes 9 50 50 50 50 50 50 50 50 50 50 50 50 50	OF E	Over to Years of		<u> </u>
Number of Employes 9 50 50 50 50 50 50 50 50 50 50 50 50 50	TION	Skilled Employes	댼	& &
Number of Employes 9 50 50 50 50 50 50 50 50 50 50 50 50 50	FICA	Age	Z.	
Number of Employes. See See See See See See See See See Se	ASSI	Persons in Charge	Fi	
factured.	_5_			10 100 100 100
4 3:11 12:12:	Nu	mber of Employes		2 18
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Car	oital Invested in Busin	ness	\$15,000 \$9,000 \$9,000 \$1,000 \$1,000 \$5,000 \$
Val F 1,	ue of Productions iscal Year ending (1880.	for July	\$75,000 125,540 122,000 8,000 20,600 5,000
Tot	al Amount of Wages I	Paid	\$21,000 27,000 52,000 47,100 8376 10,000 1,600 1,600
Nur	nber of Weeks Emplo	y'd.	22 22 22 22 22 22
	Persons Under 16	뎐	4 00
IN 187	Years of Age	Ä	ස් ලා 40 8 සුල : 80
WAGES, IN 1879,	Unskilled Employes	탸	00.98
LY W	Over 16 Years of Age	Ħ,	2 00 2 2 00
WEEKLY	Skilled Employes Over 16 Years of	ᄄ	\$\$ 4 00 6 00 6 00 15 00
E IN	Over 16 Years of Age.	Ħ	25
AVERAGE IN	Persons in Charge	æi	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
4	of Departments	Ä	5 8 <t< td=""></t<>
YES.	Persons Under 16	댿	∞ :: :: : : : : : : : : : : : : : : : :
EMPLOYES	Years of Age	Ħ	
F EM	Unskilled Employes Over 16 Years of	Fi	<u> </u>
0 X	Age	Ħ	
CLASSIFICATION OF	Skilled Employes Over 16 Years of		28 28 28 28 28 28 28 28 28 28 28 28 28 2
HEIC	Age	7	84.23 : ::::::::::::::::::::::::::::::::::
LAS	Persons in Charge of Departments	<u>F4</u>	<u>π :π : : : : : : : : : : : : : : : : : </u>
	nber of Employes	Z	25854 865 1148 88 8
	moor of Employes		F:::::::::::::::::::::::::::::::::::::
	Articles Manufactured.		Blank books and stationery Books, &c Books, and printing Lithographic printers Wood cuts and labels Engravers on wood. Wood cuts, &c. Wood cuts Engrayers on wood.
Nur	nber of Blank	•••••	19847.00

Car	oital Invested in Busin	1-88	#1.58 #4.48.48.48.59 \$555 \$555 \$555 \$555 \$555 \$555 \$555 \$
Val F	ue of Productions iscal Year ending J 1880	for July	\$ 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	al Amount of Wages I 1879		### ### ### ### ### ### ### ### #######
Nu	mber of Weeks Emplo	y'd.	9 8 Z ZZ ZZ ZZ ZZ ZZ ZZ ZZ ZZ ZZ ZZ ZZ ZZ
ei.	Persons Under 16	Œ	
IN 1879.	Years of Age	Ħ	84 8 48 8 8 4 8 6 4 8 6 8 8 8 8 8 8 8 8
WAGES,	Unskilled Employes	β÷i	92
CLY W	Over 16 Years of	¥	68 69 69 69 69 69 69 69 69 69 69 69 69 69
WREKLY	Skilled Employes Over 16 Years of	βij	38 50 70 10 10 10 10 10 10 10 10 10 10 10 10 10
AVERAGE IN	Age	¥	200 000 000 000 000 000 000 000 000 000
AVER	Pergons in Charge	阵	00.99
_	of Departments	Ħ	25
OYBS.	Persons Under 16 Years of Age	F.	:5.0 :5 :2 : \$1.51-5 : \$ 4.48 : .40 :4.
EMPLOYES	Unskilled Employes Over 16 Years of		(c) T
N OF	Over 16 Years of	Ä	<u>ම සි නහ පිටිනීමක වී ක්වයල ඇති</u>
CLABSIFICATION	Skilled Employes Over 16 Years of Age	M. F.	
ABSIF	Persons in Charge	달.	Cd .
	of Departments	Ħ	2-6838884351593512182838483116988
Nu	mber of Employes		4-68:38:33:35:55:55:55:55:55:55:55:55:55:55:55:
	Articles Manufactured.		Parlor furniture Ploture frames Ploture frames Bureau and washstands Parjor furniture, etc. Plane stools and brackets Parlor furniture, etc. Bedrendre. Bedrendre. Furniture, etc. Walnut woods of all kinds School furniture.
Nu	mber of Blank		1. Parl Parl Parl Parl Parl Parl Parl Parl

	20,000 12,000 10,000	30,000	11, 282, 406 \$896, 000
200,000 18,695	150,000	3, 900	
22.8. 28.50 28.50 28.50	25.8.21 000.08 000.08	5,000	\$636, 727
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28.	\$50. \$0. \$0.	9	2 977 19 201
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Gilt moulding	Marian Ma Marian Marian Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	Spring beds, cots, wire mat- tresses	

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Car	oital Invested in Busin	ıess	65, 600 1150, 600 1160, 600 117, 600 11
Val F	ue of Productions iscal Year ending 3 1880	for July	\$300,000 \$31,000 \$250,000 \$250,000 \$1,200,000 \$1,200,000 \$1,200,000 \$1,0
	al Amount of Wages I	aid	27: : 62666: 601286662568666666666666666666666666666666
Nui	mber of Weeks Emplo	y'd.	22 22 4 2 4 34 H
ó	Persons Under 16	탸	8 88 8 8 8 8
IN 1879.	Years of Age	Ä	8 4 8 4 8 4 8 9 8 9 8 9 8 9 8 9 9 9 9 9
AGES,	Unskilled Employes Over 16 Years of	Œi	8 23 8 3 8 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8
≽	Over 16 Years of	Ħ	2 8 88 6 6 7 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
WEEKLY	Skilled Employes	ᄄ	9 00 00 00 00 00 00 00 00 00 00 00 00 00
ä	Over 16 Years of	Ä	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
AVERAGE		댴	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ΨA	Persons in Charge of Departments	¥	258 88 12 2 2 88 8 8 8 8 8 8 8 8 8 8 8 8 8
res.	Persons Under 16	Εij	<u>6</u>
EMPLOYES	Years of Age	Ħ	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Unskilled Employes Over 16 Years of	ᄄ	
N OF	Age	×	89 29 12 12 12 12 12 12 1
CLASSIFICATION	Skilled Employes Over 16 Years of	Ä.	8 4 8 48 6 8 8 8 8 8 6 8 8 6 8 8 6 8 8 6 8 8 8 6 8
SIFIC	Age	F.	14 6 4 8 8 8 2 8 2 8 6 2 8 8 8 8 8 8 8 8 8 8 8
LAS	Persons in Charge of Departments	Ä	13 6 2 15 4 4 4 5 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	mber of Employes		882 % 36583838385832 <u>8</u> 282 8 1 5
	Articles Manufactured.		Flannels, oassimeres, etc. Tweeds and flags and bunitg Clothing. Boys' clothing Twolen goods Woolen goods Woolen goods Woolen goods Woolen goods Flannels and woolen goods All-wool cassimeres Stocking S
Nu	mber of Blank	•••••	

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Car	oital Invested in Busin	ness	\$ 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Val F 18	ue of Productions iscal Year ending Ju 80	for ly 1,	12, 000 25, 000 26, 000 10, 000 11, 000 11, 000 11, 000 125, 000 125, 000 125, 000
	al Amount of Wages I 1879.	Paid	\$3, 600 105, 296 106, 296 170, 600 1, 200 5, 600 35, 600 35, 600 42, 600 47, 500 4, 560 1, 106
Nui	mber of Weeks Emplo	o y'd	88 222222
1879.	Persons Under 16 Years of Age	표	8:2:28:38:38:38:38:38:38:38:38:38:38:38:38:38
1N 18	Tears of Age	Ä.	8 02 08 08 08 08 08 08 08 08 08 08 08 08 08
WAGES, IN	Unskilled Employes Over 16 Years of	균.	88 83 8 88 88
	Age	M.	200000000000000000000000000000000000000
WEEKLY	Skilled Employes Over 16 Years of	표	838: 38: 38: 38: 38: 38: 38: 38: 38: 38:
GEI	Age	Ä.	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AVERAGE IN	Persons in Charge of Departments	<u>ਜ਼</u>	R : 2633 : 888 : 8 : 83 : 8 : 2833 : 3
	or Departments	K.	5
EMPLOYES.	Persons Under 16 Years of Age	M. F.	ক বে : লন : : : নফ : ফ : দেমত নুম কুৰ : জ
EMP	Unskilled Employes	Ē	
N OF	Over 16 Years of	Ħ	8522225555
CLASSIFICATION	Skilled Employes Over 16 Years of Age	M. F.	60 : 200 : 2
ASSIF	Persons in Charge	뗘	
ਨੂ	of Departments	Ä	- in incure incure is incured incurred is incurred is incurred in
Nu	mber of Employes		50 - 451178 em 38 u 25 35 35 35 35 35 35 35 35 35 35 35 35 35
Articles Manufactured.			Pork boxes Sash, doors, etc. Sashes, doors, etc. Sashes, doors, etc. Flooring. Sash, doors, etc. Wood pumps. Sash, doors, etc. Cars. Washing machines Sash, doors, etc. Sish, doors, etc. Shish, doors, etc. Shish, doors, etc. Shish, doors, etc. Sash, doors, etc. Sash, doors, etc. Sash, doors, etc. Boxes, etc. Boxes, etc. Boxes, etc. Boxes, etc. Boxes, etc. Boxes, etc.
Nu	mber of Blank		L9824r07r8e5H5E475H785829238283828

Car	ital Invested in Busin	iess	7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	\$1,502,900
Val Fi	ue of Productions iscal Year ending J 1880	for uly	25. 000 17. 000 26. 000 27. 000 28. 000 28. 000 28. 000	#776
Tot in	al Amount of Wages F	aid		\$776, 911
Nui	mber of Weeks Emplo	y'd	8888888888888 : : : : : : : : : : : : :	-
6	Persons Under 16	댿		
IN 1879.	Years of Age	Ä.	\$4 80 7700 3 900	<u>:</u>
AGES,	Unskilled Empl'yes Over 16 Years of	딾		<u>:</u>
CLY W	Age	Ħ	88 7.0 88 7.0 10 28 10 10 10 10 10 10 10 10 10 10 10 10 10	<u>:</u>
Weekly	Skilled Employes Over 16 Years of	다		<u>:</u>
GE IN	Age	×	88 88 88 88 84 88 88 88	<u>!</u>
AVERAGE	Persons in Charge	며	00	<u>!</u>
	of Departments	Ħ	88 128 128 128 138 138 138 138 138 138 138 138 138 13	<u>:</u>
EMPLOYES	Persons Under 16 Years of Age	M.	912 13 131412 15 15 15 15 15 15 15 15 15 15 15 15 15	:- :-
	Unskilled Empl'yes Over 16 Years of	Ď.	සු : යා - ශාලස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්ස්	<u>;</u>
ON OF	Skilled Employes	T M	9	
CLASSIFICATION	Over 16 Years of Age	×	95 84408555154 : 9 : 01 E	10.
LABBII	Persons in Charge of Departments	M. F.		-
	mber of Employes			1957
	Articles Manufactured.		Pumps of all kinds. 22 Cases. 23 Cases. 24 Cases. 25 Cases. 25 Cases. 26 Cases. 27 Cas	
Nu	mber of Blank		88888888888888944844444444444444444444	

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Car	oital Invested in Busin	\$2,000 1,400 3,000 90,000 90,000 30,000 125,000 29,000							
Val Fis 1, 1	ue of Productions scal Year ending 880	\$200,000 1,600 110,000 70,000 80,000 86,000 86,000							
Tot	al Amount of Wages I 1879	* 671							
Nui	mber of Weeks Emplo	oy'd	<u>::::</u>						
ę.	Persons Under 16	Ŧ	4 90						
WAGES, IN 1879.	Years of Age	Ä.	9						
AGES,	Unskilled Empl'yes Over 16 Years of	Э	4 50						
KLY W	Age	ĸ.	\$10 00 7 00 7 50 7 00						
	Skilled Employes Over 16 Years of Age Persons in Charge	댿	9 9 9 9						
GE IN		Ä.	\$14 00 0 8 00 10 00 0 10 00 0 12 00						
AVER4		뇬	00						
	of Departments	Ä.	55 22 25 25 25 25 25 25 25 25 25 25 25 2						
CLASSIFICATION OF EMPLOYES.	Persons Under 16 Years of Age	M. F.	4004						
EMP	Unskilled Empl'yes Over 16 Years of Age	굗							
ON OF		H	6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8						
ICATI	Skilled Employes Over 16 Years of Age	M. F.	11 12 12 18 38 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						
ABSIF	Persons in Charge	F	5-4 : 5 5 8						
	of Departments	Ä	66 2855 245 552 113 6 7 15 15 15 15 15 15 15 15 15 15 15 15 15						
Nui	mber of Employes	••••	100						
	Articles Manufactured.	1 Trunks and sample paper cases. 2 Paper boxes. 3 Novelty paper boxes. 4 Straw boar I and paper. 6 Straw paper. 8 Straw paper. 9 Printing and wrapping paper. 10 Paper.							
Nu	Numper of Blank								

	oital Invested in Busin		\$150,000 12,2,5000 12,000
Val F 1,	ue of Productions iscal Year ending J 1880	for uly	9,000
Tot ir	al Amount of Wages P	aid	\$23,715 15,000
Nu	mber of Weeks Emplo	y'd	& 23 E
	Persons Under 16	Ĕ	
IN 1879	Years of Age	Ä	
AVERAGE IN WEEKLY WAGES, IN 1879.	Únskilled Empl'yes Over 16 Years of	ഥ	
CLY W	Age	Ħ	
WEE	Skilled Employes Over 16 Years of Age	Ei.	90 : : : : : : : : : : : : : : : : : : :
GE IN	Age	×	1228 1228 5088
AVERA	Persons in Charge	莊	
	of Departments	Ħ	92
YES.	Persons Under 16 Years of Age	M. F.	1111
EMPL	Unskilled Emplyes Over 16 Years of	F.	- c u : : :
NOF	Age	Ħ.	21 : 4
SSIFICATION OF EMPLOYES.	Skilled Employes Over 16 Years of	M. F.	d 4∞∞ ∞ ∞ : :
SSIFI	Persons in Charge	[1	::::
CI	of Departments	Ħ	50000
Nu	mber of Employes	••••	11.11
	Articles Manufactured.		silver plate Jold and silver plate Tarness silver plate Nickel plating.

JEWELRY, PLATED WORK AND MUSICAL INSTRUMENTS.

Capital Invested in Business

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F	Value of Productions for Fiscal Year ending July 1, 1880.									
Tot	al Amount of Wages I June, 1879.	\$250,000								
Nui	nber of Weeks Emplo									
.6.	Persons Under 16	Ē								
IN 187	Years of Age	Ħ								
AVERAGE IN WEEKLY WAGES, IN 1879.	Unskilled Employes Over 16 Years of	ᄄ								
KLY W	Age	ķ								
WEE	Skilled Employes Over 16 Years of	ᄄ								
GE IN	Age	×								
AVERA	Persons in Charge	뚄								
	of Departments	Ħ	\$14 00							
E8.	Persons under 16									
LOY	Years of Age	×								
SSIFICATION OF EMPLOYES	Unskilled Employes Over 16 Years of	E.								
N OF	Age	×	8	97						
TIO	Skilled Employes Over 16 Years of	ㄸ								
FICA	Over 16 Years of Age	×	2.8	×						
ASSI	Persons in charge	Fi.								
CL	of Departments	Ħ	:00	1001						
Nu	mber of Employes at d return	late	92	88						
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Capital Invested in Busines	25 (25 (25 (25 (25 (25 (25 (25 (25 (25 (
Value of Productions fo Fiscal Year ending Jul 1, 1880.	25.000 12.000
Total Amount of Wages Paid in 1879	1111 22 24 26 20 20 20 20 20 20 20 20 20 20 20 20 20
Number of Weeks Employ'd	: ## ## ## ## ## ## ## ## ## ## ## ## ##
Persons Under 16	
Years of Age	98 98 98 98 98 98 98 98 98 98 98 98 98 9
Unskilled Employes Over 16 Years of	
M Age	90000000000000000000000000000000000000
Skilled Employes Over 16 Veers of	9: 8: 88: 88: 88: 88: 88: 88: 88: 88: 88
M Age	211212121
Persons in Charge of Departments	::828::8::8::8::8::8::8::8::8::8::8::8::
Persons Under 16 Years of Age	∞ П ∞4 г. г. д
Over 16 Years of	F285826 14 : 1 :80 :1488 :3 :5100525288
Age	
Skilled Employes Over 16 Years of Age.	<u>- గ్రామంలో కాలకోనిని స్వారంలో కాలకోనిని స్వారంలో కాలకోని స్వారంలో కాలకోని స్వారంలో కాలకోని స్వారంలో కాలకోన్నారి</u>
Skilled Employes Over 16 Years of Age	<u>2000</u> 2000 20
Number of Employes	882524408550805540872588888888888888888888888888888888888
Articles Manufactured.	Wagons and carriages Mowing and carriages Mowing and carriages. Wagons acarriages, etc. Carriages etc. Carriages etc. Wagons steans, etc. Garriages etc. Wagons etc. Farm wagons Hargies, steighs and wagons Carriages and buggies Buggies and buggies Express wagons All sizes trucks and wagons Express wagons Harvesters, plows and mills Wagons and plugws Wagons and plugws Wagons and plugws Wagons and plugws Wagons and plugws Wagons and plugws Wagons etc. Cultivators, etc. Plows, etc. Cultivators, etc. Plows Wagons and plows Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plugs Wagons and plows Wagons and plows Wagons and plows Wagons and plows
Number of Blank	

3,000 9,000 9,000	35,500 40,000 350,500 6,000	3.01 9.02 9.03 9.03 9.03	. 165,000 1,500 10,000	8.688 8.788 8.788	: 178.e. 58 24888888	8,000 500 4,000 50,000
12,000	150,000 250,000 90,000 400,000 30,000	45,000 25,000 12,000	75, 000 10, 000 11, 112 48, 724		15,000 122,500 40,000	10,000 2,500 8,000 11,000
2,2,2 2,850 0,850	25,000 10,000 12,000 12,000	8,000	30,000 1,600 22,654	7, 500 2, 500 7, 900	4,000 17,000 10,000	2,500 4,000 110,000
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ultivators	tock-(tivato ral imi sheck- other gies, e	apers, alimi ters, el to wago	s bs. etc	s, etc.	mery chine machin wago ments achine	ulky plows and relows and harrow pring clothes-pi arriages and wa heek-rower and heek-rower and wringers.
Cultivators Plows, harrows, e Sulky plows	Wagons, stock-cutt Plows, cultivators, Agricultural impler Planters, check-rov Plows and other ag Light buggies, etc.	Plows, etc. Plows, scrapers, e Agricultural imple Corn planters, etc Buggies, etc. Plows and wagon.	Flour mills Plows. Wagons Wagons Wagons	Cultivators, etc. Agricultural impl	Mill machinery Heater machinery Planters machiner Carriages, wagons Ag'l inplements an	Sulky plows and replays and harrow Spring clothes-pin Carriages and was Check-rower and and wringers.
言語	Na Plan Ligh	North Ploy	Nag Wag	Ploy Ploy	Hear Plan	Poor in the

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Cap	oital Invested in Busin	1088	\$75,000 16,000	19,000	32,000	10,000	88 88 88	25, 000	το α 00 ξ	20,000	1200	1000	5,10 000 000		38; 38;	26.00 20.00 20.00	8.4 9.8	9,000	20,000
Val Fi 1,	ue of Productions iscal Year ending J 1880	July	\$175,000 25,000	80,000	150,000	3,500	366		19,000	98	36		90,00	450,000	3,5	52,000 122,000	37.000 5.000		2,000
Tot in	al Amount of Wages I 1879	Paid	\$10,000	4,811	2,5	6.0	1,126	3,180	1.820	2,00	1,560		2, 2, 2, 2, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	12,550	600	200 200 200 200 200 200 200 200 200 200	1,108	6,7 9,6	1,600
Nur	nber of Weeks Emplo	y'd.	202	52	22	52	252	22	25.23	38	22	1	22	25	5 :	3	222	25	7
1879.	Persons Under 16	Fi		:					-										
ă	Years of Age	M.		0 9														i	
WAGES,	Unskilled Employes Over 16 Years of Age	E		88			8		282			8		8			8	:	8
BEKLY		F. M	8:	\$ 5	<u>;</u>		2 8 19:	3 ;) 	:	~	:	4			17	2	2
E IN W	Skilled Employes Over 16 Years of Age	M.	\$10 00 8 8 00 8	24 80 80 80		• •	20 00 12	8				20 00			15 00		88 88		
AVEBAGE	Per ons in Charge of Departments	F.	•••	88		99		79	-				38				88	i	
zġ.		F. M.		 \$17		23	:	17					13		<u> </u>		28		116 (
EMPLOYES	Persons Under 16 Years of Age	Ä		-i o:	· <u> </u>		:		İ			i		i				i	
OF EM	Unskilled Employes Over 16 Years of Age	M. F.	17 3		<u>ت</u> ومر	3 :	<u>∝</u>	တ	01-		-	တ	-	212	<u>: :</u>	-	-	23	တ
CLASSIFICATION	Skilled Employes Over 16 Years of	Œ	ි : ලුග			601	400 	:	:			410		000			0101		_
SSIFI(Persons in Charge	F. M.							:	:	:		:			: :	•	;	
CLE	of Departments	K	9					: :		:					::'	- :	00 01		
Nur	nber of Employes		 % &			371				·==			-	8:			94	4.0	
	Articles Manufactured.		Flour and corn meal Flour, meal, graham and	Flour, meal, feed, etc.	Flour.	Flour, meal and feed.	Flour Feed and meal	Grain shippers	Flour, feed and meal.	Flour	Flour, feed and meal Castor mill	Flour	Flour feed and meal Flour, meal and feed	Flour and wheat	Flour	lour and meallour, meal and cooper stuff		lour meal ate	Flour
Nui	nber of Blank		- C	: :		100		:	E 2	E E	4C	16. E	- 80	E 0	518 518	1 23 1 23	2.8 EE	228	23

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2000 00 12 12 12 12 12 12 12 12 12 12 12 12 12	14.84 14.44.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	11, 660 1, 1660 1, 1660 1, 1660 1, 1660 1, 1660 1, 1757 1, 1757
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id hard timber dineal. Id meal. Id coory dineal. Id meal. Id meal. Id meal. Id meal.	d d mesal	d meal and barrel. d corn meal d barrels d meal	l ost meal, etc. l and produce feed meal lumber meal, etc.
Flour feed and hard Flour, gritts and meal Flour and meal Flour and meal Meal and feed Miler manufactory Flour feed and meal Flour feed and meal Flour feed and meal Flour and meal	Flour and feed Flour and meal Flour Flour Flour Flour	Feed, flour and meal Flour feed, meal and Oat meal, etc. Flour, etc. Flour, feed and corn Flour, feed and barre Flour, feed and meal Flour and lumber.	Flour meal oat mea Flour meal and prod Flour and feed Flour and meal
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Car	pital Invested in Busin	ess	\$30,000 15,000 25,000 25,000	7,8,8, 01 9,000 9,000 9,000 9,000 9,000	4,0,0,1;0; \$98888	45840 45888 88888	78,999 78,999 78,999 11,989 11,999 11,999 11,999
Val F	ue of Productions iscal Year ending (1880.	for July	\$246, 000 200, 000 40, 000		75,000	300,000	200,000 8,000 150,000 120,000
	al Amount of Wages I	aid	24, 000 1, 000 1, 600 7, 000	1, 200 1, 200 156 900	. 14.9 196295 1960965 1960965	2, 136 2, 136	2, 1, 2, 4, 6, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Nui	mber of Weeks Emplo	y'd.			23	2 22 2	2 242 2
.623	Persons Under 16	.Fi			:8:::		
Z	Years of Age	Ħ	00 6	26	9	:::::	
WAGES,	Unskilled Employes Over 16 Years of Age	E i	888 :8	888:	:88	::88:	: 8 :888 :8
EEKLY \	Age	Ä	009 8	4.00%	92	25 6 0	9 80 9
AVERAGE IN WEI	Skilled Employes Over 16 Years of	124	:88 :8	:8 :8 :8	:83		388:88
	Persons in Charge of Departments	X	∞ ∞ • • • • • • • • • • • • • • • • • •	9 6 4	9 ₈	192	
AVE		E	::88	823	:88 :88		288 288
888	Persons Under 16 Years of Age	H	1851	1 10	:^& :&' :::::::)	222 822
EMPLOYES.		×.					
OF EN	Unskilled Employes Over 16 Years of Age	M. F.	288 <u>1</u>	:e :41-6	(O) P	400	::- ::-:::::::::::::::::::::::::::::::
CLASSIFICATION	Skilled Employes Over 16 Years of	뚐	9 2 3		:- cs :cs	::00 00 00 <u>0</u>	
IFICA	Age	F. M.	1 1 1 1		7		<u>' ii_</u>
CLASS	Persons in Charge of Departments	M.	61 (010)	:	C		<u> </u>
	mber of Employes		H2010 : :	Фичи 3 .	444451	2012~445	
	Articles Manufactured.		nd meal, and barrels			lumber	lumber nd feed
	Artic		Flour a	::::::	:::::	:::::	::::::::
Nu	mber of Blank			88888	****	2888 8	100000000000000000000000000000000000000

	242344456 2666666666666666666666666666666666	5.71.1.21.2 5.60.1.21.2 5.60.00 5.60	1,500 1,500	2,00 0,00 0,00 0,00 0,00 0,00 0,00 0,00
200, 600 60, 600 60, 600 60, 600 60, 600 60, 600 60, 600	75,000	200, 000 60, 000 31, 000	250, 000 20, 000 20, 000	12,000
62 64 64 64 64 64 64 64 64 64 64 64 64 64	2, 151 1, 105 3, 000 1, 200 1, 508 1, 508	1, 1, 1, 9, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	%,4,1,1,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	1, 240 1, 240 1, 240 1, 000 1, 000
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16 12 12 12 13 15 15 15 15 15 15 15 15 15 15 15 15 15	26 7 7 8 60 19 60	15 60	9 00 15 00 7 00 29 00	12 00 12 00 7 50 6 00
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eed. buokwheat, eto and oak lumber. eed.	barrels ed. ber and tile	ۍ	5	
st, rye, buok etc. etc. meal and oa	and feed snot feed lour, etc and lumber shot and i			
Flour and feed. Wheat, rye, buck. Flour, etc. meal and oa	~~ # ·	m mean		::::::::
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MILLS
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Capital Invested in Business	83389999999999999999999999999999999999
Value of Productions for Fiscal Year ending July 1, 1880.	
Total amount of Wages paid in 1879.	2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Number of Weeks Employed	경영경영영영국강 영경 (국 : 경영
Persons Under 16 Years of Age	3 3 3
1 rears of Age	
Unskilled Emplyes Over 16 Years of	34 3 8835 8 338
Age	8 2 2 2 2 2 4 2 2 4 2 2 3 4 2 2 3 3 4 2 2 3 3 3 3
Skilled Employes Over 16 Years of	
Age	889 90 90 90 90 90 90 90 90 90 90 90 90 90
Persons in Charge of Department	93
E Department	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Persons Under 16 Years of Age	
Unskilled Empl'yes	
Over 16 Years of	ல அட ல்லீகவுலை வடனட
Skilled Employes Over 16 Years of Age	:a :-Ka :-wa4aaa : :a :aa8a- : : :
Age	
Persons in Charge of Department	70 L 22 4444 L 23 L L4 LL
Number of Employes	<u> </u>
mufactured.	9
Articles Manui	Flour and feed
Number of Blank	84886885666646666688888888888888

8;5;8 225	1-1-4.0 52-5-5	. 8 5	10,000 48,000
15,000	135,000	168,826 29,000	1,200
10 00 10 10 00 2, 280	9 00 6 2,300	11,360	30,000 16,000
22	28	16 12 00 13 00 7 50 52 89 00 62 62	18 6
		13 00 7 50	
10.00	89	7 50	
90	::8		
10.00	00 6	13 90	
88 68		88	
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d		d orus	
ee pu	:: 5	Talan ed an	and meal
flour an	196	15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.5	flour and meal

BASKET MAKERS.

Car	oital Invested in Busin	ess	\$7,000
Val Fig 1,	ue of Productions scal Year ending J 1880.	for uly	
Tot in	al Amount of Wages I 1879	aid	
Nur	nber of Weeks Emplo	y'd.	07
1879.	Persons Under 16 Years of Age	표	
13 IS	iears of Age	M.	
WEEKLY WAGES, IN	Unskilled Empl'yes Over 16 Years of	F.	
KLY V	Age	M.	
WEE	Skilled Employes Over 16 Years of	됸	
GE IN	Age	M.	
AVERAGE IN	Persons in Charge	퍞	03 8\$
	of Departments		00 6\$
YES.	Persons Under 16 Years of Age	표	- : :
(ELO		. M	::
SSIFICATION OF EMPLOYES.	Unskilled Empl'yes Over 16 Years of Age	M. F.	<u>: :</u>
NOL	Skilled Employes Over 16 Years of	F. 1	
FICAT	Over 16 Years of Age	M.	
ABBI	Persons in Charge	편.	
占	Departments	Ħ	
Nu	mber of Employes		
	Articles Manufactured.		Rattan and willow Willow-ware

WATCH MANUFACTORIES.

	209, 372	
-		
	\$124, 919	
	-	
-	- 	
-	8	
-	192	
-		
-	388	
	ovements	
	Watch m	

FACTORY AND WORKSHOP INSPECTORS' REPORT

Of Trades and Occupations, with Number and Sex of Persons Employed, in Chicago.

Kind of Business and Occupation.	Factor and W shops	Stores	Mixed	Total.	Total En	Male	Female	Und	ER 15.
	ies 7ork-				Em-	<u> </u>		Boys	Girls
Agricultural implements	2	25		27	1,326	1,321	5	57	
Artificial feathers and flowers	9 15			11 18	246 72	47 52	198 20	7	14
Artists' materials and artwork	32			45	98	86	12	4	
Asbestos felting	1	ī		2	7	7			
Assayers	5			5	29	29			يي
Atlas and map publishing	8	2		10	65 57	40	25	8	7
Auctioneers	17	12		12 17	250	57 176	74	12	ii
Axles, car and wagon	12				73	73		2	
Axle grease				2 3	22	20	2		
Axle grease	2			8	319	301	18	26	6
Bags	13 153		,	14 292	$\frac{280}{1,327}$	95 1, 203	185 124	11 46	34 25
Bakeries	100	3		10	25	1, 203	10	3	
Rarher ahona	416			416	849	847	2	63	
Barber supplies	4			4	31	31		2	
Barbed wire	6			6	118	118			
BasketsBedding and mattresses	6 21	1 7		99	159 203	159 122	81	88 19	
Bed springs.	3			22 3	40	28	12		
Bells		1		1	2	2			
Bellows.	2			2	.16	16		يي	
Belting, leather and rubber	4	8		$1\overline{2}$	170 15	170 15		5	
Bicycles and velocipedes	1	2		3	10	10			• • • • • • • • • • • • • • • • • • • •
Billiard tables	7	i	<u>.</u>	2 8	297	295	2	3	
Bird storesBlacksmiths and horseshoers	· · · · <u>· · · · · · · · · · · · · · · </u>	5		5	12	9	3	2	
Blacksmiths and horseshoers	222			222 3	862	862 11	;	32	
Boat builders	3			3	11 13	13			
Boiler and pipe covering Boiler makers and supplies	11	8		19	429	429		20	
Bolts	2			2	133	133		13	
Booksellers and stationers	34			34	431	292	139	31 9	46
Booksellers and stationers	523	118 151		118 674	314 2,696	259 2, 503	55 193		2
Bottle dealers.	020	3		7.3	2,030	2,000	150		
Bottling establishments	18			18	232	232		17	
Box factories, paper	12			12	359	81	278	15	47
Box factories, wood	10			11 5	614 20	614 20		50	
Brass founders and finishers	19			19	742	742	• • • • • • •	59	
Breweries	14			14	494	494		15	
Brewers (branch depots)	l	8		8	37	37			[
Brickmakers			12	12	1,358	1,358		39	
Brick, lime and cement	8		23	23 10	308 1, 434	303 1, 434		41	
Bridge and car builders Broom makers	12			12	1, 404	82	6	1 79	
Broom makers' supplies	1	14		15	49	49	_	4	
	13	6		19	184	183	i	30	· <u>-</u>
Burial cases and undertakers sup.	12	4		16	175	155	20	4	5
Butterine	1 5	1	i	5	28	28		I	l • • • • • •

Factories and Workshops-Continued.

ind of Business and Occupation.	Factories and Work- shops	Stores	Mixed.	Total .	Total ploye	Male	Female	Und	ER 15
-	ves Vork-				ed		Θ.	Boys	Girl
alcium lights	2			2	4	4			l
anned fruit	5	2		2 7 3	270	62	208	10	3
anned meats ans and tanks (shipping)arpenters and buildersarpet cleaners.	2	····i		3	1, 123 80	973 80	150	36 10	1
arpenters and builders			220	220	2, 258	2, 258		115	
arpet cleanersarpet weavers	18 6			18	51	36 7	15	8	
arpet weaversarpet and oil cloths	2	10	•••••	6 12	8 57	47	10	• • • • • •	
arpet and oil cloths arriage and wagon shops hain belts	139	10		149	1.432	1.432		70	
nain Deits	1 2			1 2	20 38	20 38			
hains hair makers harcoal	8	2		10	318	318		87	
harcoal	·····i	8		8	22 32	22			
heesehemical works	6	6		6	32 44	32 39		2	ļ
hemical works hina, crockery and glassware igar press igar boxes igars and tobacco		96		96	316	266	50	10	
ider press	2			2	10	10			
igar DOX68igar and tobacco	5 153	375		528	116 1,866	69 1,689	47 177	19 148	
	21			21	674	51	623	140	
lothes wringers	6	3		9	22	22		2	ļ <u>.</u>
oal and wood vards	555	184	311	739 311	6,886 1,072	3,777 1,069	€, 109 3	224 44	4
lothes wringers. lothing and tailoring. oal and wood yards. offee, tea and spices. ommercial agencies. ommission merchants.	15	20		35	398	353	45	15	
ommercial agencies		188	2	2	65	65		5	
ommission merchants	23	188	•••••	188 220	571 1, 0 3 6	571 630	406	60 84	····i
OODAPS	47	3		50	574	574	400	47	
onner, tin and sheetiron	18	1		19	322	322		18	
orus and tasseis	4 5	2	•••••	5	130 102	20 76	110 26	9	
ords and tasselsorks, bungs and faucetsornices (galvanized iron)	12			12 7	181	181		4	
orsets	6	1			75 23	15	60	8	
ostumers	6	3	•••••	6	23 25	8 25	15		
urled hair. utlers and grinders. entists supplies	14	3		3 17	203	194	9	44	
entists supplies		3		3 20	10	10			
ies and stencilsistillers and rectifiers	20 20	21	• • • • • •	20 41	71 278	71 278		11	
OCKS BILL SILLD VALUE	20		5		140	140			
resemakere	265	137		402	1,307	119	1, 188		1
rugs, medicines and dye stuffs	2	292 392		294 392	1, 224 5, 476	1, 150 4, 232	74 1,244	169 420	1
yers and scourers	31	5		36	124	109	15	4	
lbows	4			4	35	35		11	:
lectric apparatuslevator buckets	3	•	•••••	11 3	206 19	191 19	15	3	• • • •
levators (grain)			25	25	345	345		l	
ngravers (wood, steel and glass). nvelopes	64 2		•••••	64	280 28	265	15	. 21	
vnragg companies	2		8	25 64 2 8 80	123	16 123	12	7 3	
ancy and variety goods		80		80	488	231	257	27	
eather renovating	8 4			8 7 3 5 3	117	23 33	94	6	
eed, patent	3			á	47 18	12	14 6		l
iles	2	3		5	27	27		. 2	••••
ire apparatus and extinguisher ire escapes and stand pipes	2	1		3	85 5	85 5		2	
igh denots and nackers	12	12		24	162	162		2	
lavoring exts. and perfumery	8	3		24 11	150	70	80	18	
lorists and nurserieslour and feed	····i8	190	67	67 208	140 658	111 657	29 1	63	
oundries, gray and malleable	47			47	2, 643	2,643		121	
lour and feed oundries, gray and malleable oundry facings and supplies	, 1	4	····ii	5	17	17			
reighting, marine rogs, switches and RR. crossings ruits, green and dried	·····i		11	11	304 18	304 18	•••••		
ruits, green and dried		34		34	110	110		17	
urniture	99	239		338 21	4,702	5,648	24	403	
urriers. as works.	18 3	3		21	204 320	152 320	52	18	
as machines and meters ents' furnishing goods	10			3 10 97	27	27			
ents' furnishing goods	38	59		97	1,247	427	820	49	ï
lildersllass, window and mirror	3			8	10 38	10 38			١

Factories and Workshops—Continued.

	8 8 8	22	K	Tota	oTo	Male	Fe	TTarra	ER 15.
Kind of Business and Occupation.	and Wor shops	Stores	Mixed	tal	Total] ployed	le.	Female.	UND.	EB 10.
kind of Business and Occupation.		. 20	-		8		ē		·
	ork-				Em	•		Boys	Girls
•	1	 · -		 • 			<u> </u>	!	
Glass stainers and decorators				6	.74	70	4	9	
Gloves and mittens	12	9		21 3	126 15	37 15	89		9
Glucose Glue and fertilizers Gold and silver leaf	3	, ž		5	465	370	95	65	31
Grocers	3	1,455		3 1, 455	5, 182	35 4, 564	47 618	347	18
Gunpowder Guns pistols. etc Hair goods. Hardware, stoves and tinware Harness, saddles and horse cloth.		7		1 7	25	25			5
Guns. pistols. etc	40	21 20		27 60	103 223	88 55	15 168	. 7 9	18
Hardware, stoyes and tinware	10	262		272	1,573	1,549	24 70	177	
Harness, saddles and horse cloth.	144			160 103	1,092	1,022 304	70 112	76 32	35
Hats, caps and furs	15	18	4	4	416 11	304 11	112	32	
Heating and ventilating apparatus	14	13		27 42	180	180	• • • • • •	15	• • • • • •
Hoisting machines	3	39		1 3	231 98	231 98		10	
Hops, malt and barley	16	14		30	256	256			
Horn and shell goods	1 2	1		2 2	10 149	8 142	2 7	25	•••••
Hats, caps and furs Hay presses Heating and ventilating apparatus Hides, tallow and wool. Holsting machines. Hops, malt and barley Horn and shell goods. Horse nails. Hose and stockings Loe dealers. Links	18	8		26 128	320	86	234	23	- 44
Hotels			128 23	128 23	4, 234 440	3, 018 440	1, 216	296	195
Inks	4	2		6	43	23	20	8	15
Inks Iron, nails, steel and heavy h'dw're		. 9		9 2	146	146 2, 950	•••••	9 60	
Iron and steel rails Iron works	2 25	• • • • • •		25	2, 950 335	335		16	
Japanners Jewelers and watchmakers	4			4	23	23			•••••
Jewelers and watchmakers Junk dealers	18	214 33		232 33	1, 015 134	1,015 116	····i8	143	· · · · · · ·
Knitting machines		4		4	10	9	1		· · · · · <u>· · · · · · · · · · · · · · </u>
Laces and ruching	6		• • • • • •	6	90 18	18 18	72	7	11
Ladders Lamps, lanterns and signals	10			10	77	77		9	
Lard and lard oil	4	1		5 3	345 24	325 24	20	11	• • • • •
Last manufacturersLaundries	273			273	1.616	268	1,348	31	···ii5
Lead pipe. Leatner and findings.	- 3			3 47	21	21			• • • • • •
Leather goods	6	47	•••••	47 8	290 62	285 30	5 32	40 3	····· ·
Lightning rods.	1	3		4	52	52		3	
Lithographing Livery and boarding stables Locksmiths and belihangers	25	•••••	181	25 181	310 714	250 714	60	35 16	55
Locksmiths and bellhangers.	41			41 108	99	99		14	•••••
Lumber	<u>2</u>	····i	108	108	3, 411 39	3, 411 26	i3	5	ġ
Lye Maccaroni	2			2	12	10	2		
Machinists and machinery Map and chromo mounting	60	19		89	1,510	1,510	·····	94	
Marble and stone	5		64	5 64	36 808	27 808		39	<u>a</u>
Matches	i	3		4	70	20	50	141	• • • • •
Meat markets. Metal and metallic goods.	2	657 10		757 12	1, 593 58	1,550 58	43	7	
Mill furnishing. Millinery and straw goods. Music and musical instruments.	6	4		10	153	150	3	3	86
Music and musical instruments	15 14	217 24		232 38	956 490	115 486	841	35 22	80
	13			8	25	16	9		2
Newsdealers.	200	20		20 200	200 920	193 847	73	8	• • • • • •
Newspapers and publishing Notions.		378		378	1,335	991	344	88	7
Oleomargarine	3	····iż		3 12	80 92	80 82	10		3
Oyster depots Packing and slaughter houses	26	12		26	464	464	10	42	
Painters.			214	214	616	616		74 33	
Paints, oils and glass	13	67 30	•	80 30	464 231	427 209	37 22	39	3
Paper dealers. Pattern and model makers. Patterns (paper).	16			16	73	73		5	
Patterns (paper)	•••••	4	····ii	11	12 262	262	10		
Pawnbrokers		56		56	141	124 203	17		
Photographers		116 3		116	268 43	203 43	65	3	. 1
Photographic apparatus Pickles and preserves	6	4		10	70	52	18	3	6
Pickles and preserves Picture frames and moulding	63	27		90	1, 171	1,140	31	173	••••
Pipe factories (smoking)	3	'	1	ં 31	S ₁	81.	'		••••

Factories and Workshops—Continued.

Kind of business and occupation.	Factories and work- shops	Stores	Mixed	Total	Total em- ployed	Male	Female	Und	er 15. Girls
Planing mills	. 31	1	'	31	2, 761	2,761		265	
Plasterers and masons		· • • • • • •	85	85 10	1, 256	1,256			
Plaster casts, stucco and statuary.	9	1		10	45	45		5.	
Plaiting.	17			17	132	121	11	4,	• • • • • •
Playing cards and gambl'g utens'ls	· 180	10	'	190	15 676	12 676	3	49	•••••
Plumbers, gas and steam fitters Plumbers' supplies Pop corn	100	10		4	21	970 21		43	
Pon corn	3			3	20	18	2		
PATIETY	1 3			3	14	10	4		
Printers Provisions	167			167	2,568.	2,524	44	81	. 1
Pumps	3	23		23 8	130 70	130 70			
Rage	; •	35		35	188.	112	76	17	49
Rage	,		32	32	4.362	4, 350	iž		
Refrigerators	4	2	,	6	37	37			
Regalia and banners	3		ایتست	3	35	15	20		
Regalia and banners	!	9	i 16	16: 9	105	105	••••	4,	
Ruhher stamps	13	! 9	·;	19	115 36	115 36	•••••		
Safes, doors and locks	6	· · · · · · · · · · · · · · · · · · ·		13 9	170	168	2	14	
Safes, doors and locks	Ĭ	7	, , , , , , ,	8	66	66			
Dail		2		8 3 3	18'	18			
Sand		'	3	. 3	224	224		25	
Sash, doors and blinds	15	•••••••••••••••••••••••••••••••••••••••	!	15 5 7	34	34		25	•••••
Scales	4	3		7	110	110	• • • • • • • • • • • • • • • • • • • •	5	•••••
School furniture	4	5		9	301	301		29	
Scientific instruments	5	6		11	30;	30		2	
Screws	1		!	_1	40	40		ا عدد ا	
Seed stores		17	22	$\begin{array}{c} 1\overline{7} \\ 22 \end{array}$	296 183	91 183	205	25	35
Sewer and drain pipe	1		6	6	16	16			
Sewing machines and attachments	12	44		56	431	364	67	7	
Bewing machine furniture	7	, 14	1	56 21 7	274	261	13	30	
Newing silk and twist		7		7	31	26	5		
Ship chandlers		4		4	21 22	21 22	••••		
Shoo bleeking	6	;		6 1	6	22			
Shoddy	3			3	85	59	. 26	9	
Shot factory	1			3 1	14	13			
Shoddy Shot factory Show cards	6			6	12	12		2	
	21		•••••	21	179 12	179 12		22	
Signs (metal and glass)	i	· • • • • • •		1	95	65		····i	
Sleeping car company	7			7	89	68	21		
Soaps and candles	16	6		22	408	3 62	46	30	5
Soda water apparatus	4	;		4 2	15	15 6			
Sorrento and inlaid woodwork Spring beds	2 15			15	6 109	104	5	17	
Springs (carriage, etc.)	5			5	73	73	۰	-i	
Stair builders	6			6	35	35			
Stamping and embroidery	5	9		14 9	50	10	40		6
Starch		9		9	25 85	25 85			
Stereotypers and electrotypers Stove polish	1			1	3	80 3		11	•••••
Suspenders	2			1 2	16	7	9	•••••	
Suspenders Syrups and molasses	ļ <u> </u>	4		4	28 31	28			
Tanks and cisterns	6			6	31	31			
Tanners and curriers	20			20 2	881	881 7		38	
Tanners' supplies Teaming and omnibus lines. Telegraph and telephone Co's	4		83	83	4, 183	4, 183			
Telegraph and telephone Co's			14	14	775	716	59	95	
Terra cotta	2			83 14 2 28 32	43	43		2	
Tin stamped and Japan ware	10			28	1,219	1,038	181	119	47
Tobacco, smoking, chew, and leaf. Toys and fancy goods	3	29 114		114	493 354	848 282	135 72	38 23	47 13
Trinks	12	9		21	191	191		16	1.5
Turning (wood and ivory)	11			îî	65	65		8	
Turning (wood and ivory) Type and type founders Umbrella and parasols	6	1		7	360	31 0	50	15	
Umbreila and parasols	8	5	83	13	39 176	24 176	15		
Undertakers Upholsterers	37		53	83 37	555	533	22	64	·····ż
Vault and skylights Varnish	ľ				4	4			
Varnish	1 4	1	1	1 4	52	52	I	l	

Factories and Workshops—Continued.

Kind of Business and Occupation.	Factories and Work shops	Stores	Mixed	Total	Total Employed	Male	Female	Undi Воув	
Vaneers Vinegar Wall paper and window shades. Warehouses and storage Watch cases. Whip factory White lead and oil Willow and wooden ware Wines and liquors, wholesale. Woolen and linen goods Wrought iron pipe Yeast Zephyr and worsteds	6 4 6 4 17	3 5 24 12 53 6 7 8 3 11	13	222 322 13 6 4 11 16 533 23 7 11 6	16 120 135 99 135 193 193 170 253 107 36 143 18 28	120 135 99 135 11 193 170 233 107 34 143	2	9 7 4 1 16	,3
Grand total	5, 415	7,611	1,779	14, 809	125, 125	107, 554	17,571	6,850	2,349

FACTORY AND WORKSHOP INSPECTORS' REPORT

Of Nationalities Employed in the following Occupations, in Chicago.

Occupation.	Total No. Employed	No. of Ameri-	No. of Germans.	No. of Irish	No. of Scandina- vians	No. of Sclavo- nians	No. of French Italians	No. of mixed
Bakers and confectioners Blacksmith and boilermakers Boots and shoes. Brewers and distillers Bridge and car builders Canned goods. Carriages and wagons Cigars and tobacco Clothing and tailoring Carpenters and builders Dressmakers and milliners. Dry goods and notions. Foundries, iron and brass Furniture. Groceries. Hardware and tin shops. Hotels. Laundries Laundries Laundries Packing and slaughter-houses. Painters and glaziers Picture frames and mouldings Planing mills and box factories. Planners, gas and steam-fitters Printers, binders and publishers Rolling mills. Sewing machines Steam and street railroads Stone and marble works Tanners and curriers Warehouses and elevators	2,749 3,234 1,589 3,411 1,510 464 619 1,177 3,176 3,912 2,950 423 4,319	303 133 440 43 189 110 168 271 419 2,971 419 265 533 1,457 241 131 131 131 131 131 131 132 87 87 77 77 77 77 77 77 77 77	1, 275 355 1, 571 1, 576 432 448 450 457 668 1, 196 668 1, 196 632 402 402 402 402 402 402 402 40	\$355 \$71 421 580 429 214 421 542 425 426 536 536 542 542 542 543 544 544 544 544 544 544 544	147 78 170 14 145 62 62 17 1,24 153 154 468 151 119 94 229 9105 39 90 90 90 90 90 90 90 90 90 90 90 90 90	169 344 555 411 139 91 91 91 91 92 92 92 92 92 92 92 92 92 92 92 92 92	19 6	76 30 1033 1244 944 533 1455 1455 1258 1288 3636 3638 3448 353 364 155 155 155 155 155 155 155 155 155 15
Total	77,958	16, 251	25,713	20, 918	5,552	5, 621	866	3,037

COMMUNISM IN ILLINOIS.

Since the financial crisis of 1873, there have been mutterings among a small portion of our working people, which, to some, have occasioned alarm, from fear of the probable growth of the influences which have struck terror to European industry during political crises in the past two decades—and which are now the cloaks which shields so much of the crime across the water. The matter assumed so serious a character during the years 1878 and 1879 that we can not, in justice, pass it by without noticing its rise and its

present status.

The whole movement is so utterly foreign to our institutions and the conditions under which our whole people live, that it cannot thrive or attain any material strength under the state of industrial society which now exists. And under the improved conditions which will, in the near future, be brought about, it will be remembered only as a mad dream of the past. It was propagated among the working population of our principal industrial centre by the foreign element which had already breathed the air of liberty long enough to know that liberty was not license; but who-suffering under the wrongs of systems of government which have first ground all the earnings of their people out of them to carry on and maintain aristocracies which they had no part in making, and then virtually forced them to leave the land of their birth, or else tarry in it to suffer the same evils all their lives-had imagined that the same cause was at work here. Happily, things have attained their normal position here, in an industrial sense, and the constant employment and content which followed have dissolved the trouble till the organization which, three years ago, polled 11,000 votes, can not muster to exceed one-tenth that number.

The socialistic movement was first organized at Chicago, in this State, in 1873. Since then, although known at different times by different names, the party has existed. The first name assumed was "Social Democrats;" the next, the "Workingmen's Party of the United States;" and the last, by which the combination is now known, the "Socialistic Labor Party." As a political factor, its greatest strength was attained in the spring of 1879, when upward of 11,000 votes were polled for the party's candidates, although at no time were there more than 700 enrolled members. The votes were drawn from the working classes generally, as the platform endorsed and advocated the measures usually sought for by tradesunionists, such as higher wages, shorter working time, abolition of

child labor, factory and workshop inspection, etc. Such demands and objects, however, form no portion of the Socialistic creed, are repudiated by the most honest and fearless of the Socialistic leaders, being by them denounced as "patent medicines," and were introduced and used merely to attract the favorable attention and secure the votes of the working classes. This, from various causes, the latter have since learned, and therefore the political force and power of the Socialists has decreased to such an extent as to be no longer felt.

It may be best to inquire, for a more thorough understanding of the subject,—

- (1.) What is Communism?
- (2.) What is Socialism?
- (3.) What relation do they bear to each other, either in principles or adherents?
- (1.) Communism, pure and simple, means a community or commonality of property, regardless of its producers or the methods of production. It means that needs, regardless of deeds, shall be rewarded. The fallacy and inequity of Communism, under any phase of civilization, requires no refutation; the poverty, retrogression and barbarism which would result therefrom are manifest to all thinking men.
- (2.) Socialism advocates the control of the industries of the people by the government; means the "nationalization" (forcible acquisition) of the machinery of locomotion, of communication, of production, of distribution, and of the products of industry during the process of "distribution" by the government—means that all the agents of production and distribution, and all the products themselves, shall be controlled and owned by a coercive political combination (the State), the products to be distributed to the producers in such manner and in such proportions as may be agreed upon by that same coercive combination; for, they say, "if this is a government of the people, by the people, and for the people, and if the most important function of the government is the protection of its individual citizens, they ought to have a right to ask that the power of owning and controlling the capital of the nation, which is the accumulated labor of the nation, and which directs and controls the industry of the nation, should be in the hands of the nation in its collective capacity, and not in the hands of individuals, to be used by them for their own private gain and profit."
- (3.) There is no necessary connection between Socialism and Communism, further than that both advocate coercive industrial cooperation, the absorption of everything by the State, and the ultimate crushing out of individuality. In reality, indeed, Communism is but an extension of the doctrine of Socialism.

Socialistic pamphlets and speeches would lead to the belief that the world's moral condition is not only stationary, but retrogressive. No grosser deception could exist. A man must be blind to the teachings of history, who cannot see that wrong, injustice and oppression are gradually but surely passing away; that in the daily life, social and political, of the workingman, he was never before so

respected or self-respecting as he is to-day; that the moral sentiment which rose in arms against Southern slavery because of its injustice, and which cries out in denunciation of Irish rack-rents, because of their inequity, was utterly lacking, even a hundred years ago. Indeed, all who are not blinded by ignorance, or whose opinions are not warped to suit particular theories, can plainly see that the world's ethical progress has kept full pace with its material improvements; that the "good old days" are shadows; and, com-

pared with other times, the Golden Age is here.

But, were the statements of the Socialists true—were it, indeed, a fact that private greed violates justice to such a degree that the moral status of the world is retrograding—what remedy can they offer? State control! If greed, rapacity and dishonesty characterize the people individually, how can a "collective" central agency blot out these vices? How can a State be other than as the units of which it is composed? The State, at best, but acts upon and enforces the sentiments of the people, and the people "in their collective capacity," intensify, rather than obliterate, dominant imperfections; and, though the established system be perfect in detail, yet will the viciousness of the agents and the factors degrade it to a level with the general conduct of society. Indeed, to suppose that governments can create perfect conditions or perfect men, is an absurdity. Governments are made by men; not men by governments. All Socialistic reasoning in this respect is the sheerest folly. Causes and effects are so confounded as to create a chaos—as to be a veritable case of "bricks without straw."

Now, much as capital—or the private ownership of capital—is railed against by Socialists, yet it is absolutely indispensable to a progressive civilization. Without capital, fixed and movable for use in reproduction, barbarism would soon result. By capital alone can a dense population be maintained; by capital alone is civilization rendered possible. Socialists insist that this necessary capital should be in possession of society—in possession of the nation "in its collective capacity"—and not controlled by private ownership. It may be well to inquire, however, how capital has been and is now being accumulated? Is it not by an almost unreasoning instinct in manacquisitiveness—an impulse sometimes pursued even at the expense of the desires? And is it natural or reasonable to suppose that this impulse or instinct can be replaced by some other agency equally operative? True, benevolence may in some slight degree compensate; but, since the world's progress has thus far been retarded by a scarcity of capital, it is evident that the master passion of individual accumulation is still requisite to supply the material motive power for industry. It may be insisted that the feeling appealed to is coarse and base, but it is at any rate efficacious; it does lead to habitual and systematic saving, and furnishes the world with the basis for a progressive civilization. Nothing is more positive, indeed, than that the capital of the nation, if "nationalized," would rapidly disappear. It would never have been accumulated had it not been for the knowledge of its possessors of their right to keep it and enjoy its fruits. It cannot be preserved, much less increased, by any feebler motive.

The need of the industrial classes, above all things else, is selfrestraint; is knowledge whereby the means they acquire shall be properly and economically utilized; is more self-conscious independence. Now, if self-restraint be needed, how shall it be acquired? By removing all necessity therefor—by thrusting on its sphere of action, and replacing it by an artificial agency called the State? Or shall we not rather be guided by nature's laws and convinced by nature's teachings, "that strength will show itself only where strength is called for—that an undeveloped capability can be developed only under the stern discipline of necessity?" It must be kept ever active, ever strained, ever inconvenienced by its incompleteness. Under this treatment it will, in the lapse of time attain efficiency; and what was once its impossible task will become the source of a healthy, pleasurable, and desired excitement. State interference obviously, cannot aid self-restraint or self-reliance. Indeed, by such interference adaptation to better conditions is checked and the development of necessary faculties prevented. Any agency used as a prop for man's weakness but prevents the acquisition of strength. Anything which renders self-restraint unnecessary fits mankind for a state of eternal babyhood.

Is the State capable of managing the industrial interests of the people? Are the people "in their collective capacity" wise enough, or, honest enough for such management? Political movements usually lower men's conduct below society's recognized level. What would be deemed contemptible in the social sphere is too often tolerated, even admired, in the political. Most of the duties now assumed by the Government are but poorly performed. Fraud, jobbery, and corruption are daily charged against it. Having failed to perform well its part in the limited sphere now allotted to it, why should an extension of its powers and responsibilities be granted? Upon this point we quote from the words of a man whose ability and keen

logic are unquestioned:

'Did the State fulfill efficiently its unquestionable duties, there would be some excuse for this eagerness to assign it further ones. Were there no complaints of its faulty administration of justice, of its endless delays and untold expenses, of its bringing ruin in place of restitution, of its playing the tyrant where it should have been the protector; did we never hear of its complicated stupidities; its twenty thousand statutes which it assumes all Englishmen to know, and which not one Englishman does know; its multiplied forms which, in the effort to meet every contingency, open far more loop-holes than they provide against; had it not shown its folly in the system of making every alteration by a new act, variously affecting innumerable preceeding acts; or in its scores of successive sets of chancery rules, which so modify and limit and extend and abolish and alter one another, that not even chancery lawyers know what the rules are. there would be some en-. couragement to hope other benefits at its hands.

"Even though it had bungled in everything else, yet had it in one case done well, had its naval management alone been efficient, the sanguine would have had a colorable excuse for expecting success in a new field. Grant that the reports about bad ships, ships that will not sail, ships that have to be lengthened, ships with unfit engines, ships that will not carry their guns, ships without stowage and ships that have to be broken up, are all untrue, * and there would remain for the advocates of much government some basis for their political air-castles, spite of military and judicial mismanagement.

"As it is, however, they seem to have read backward the parable of the talents. Not to the agent of proved efficiency do they consign further duties, but to the negligent and blundering agent. Private enterprise has done much, and done it well. Private enterprise has cleared, drained, and fertilized the country, and built the towns, has excavated mines, laid out roads, dug canals, and embanked railways; has invented and brought to perfection plows, looms, steam engines, printing presses, and machines innumerable; has built our ships, our vast manufactories, our docks; has established banks, insurance societies, and the newspaper press; has covered the sea with lines of steam vessels, and the land with electric tele-Private enterprise has brought agriculture, manufactures and commerce to their present height, and is now developing them with increasing rapidity. Therefore do not trust private enterprise. On the other hand, the State so fulfills its protective function as to ruin many, delude others, and frighten away those who most need succor: its national defences are so extravagantly and yet inefficiently administered as to call forth almost daily complaint, expostulation, or ridicule; and as the Nation's steward it obtains from some of our vast public estates a ruinous revenue. Therefore trust the Slight the good and faithful servant, and promote the unprofitable one from one talent to ten.

"Seriously, the case, while it may not in some respects warrant this parallel, is in one respect even stronger; for the new work is not of the same order as the old, but of a more difficult order. Badly as government discharges its true duties, any other duties committed to it are likely to be still worse discharged. To guard its subjects against aggression, either individual or national, is a straightforward and tolerable simple matter; to regulate, directly or indirectly, the personal actions of those subjects, is an infinitely complicated matter. It is one thing to secure to each man the unbounded power to pursue his own good; it is a widely different thing to pursue the good for him. To do the first efficiently, the State has merely to look on while its citizens act, to forbid unfairness, to adjudicate when called on, and to enforce restitution for injuries. To do the last efficiently, it must become an ubiquitous worker, must know each man's needs better that he knows them himself; must, in short, possess superhuman power and intelligence. Even, therefore, had the State done well in its proper sphere, no sufficient warrant would have existed for extending that sphere; but seeing how ill it has discharged those simple offices which we cannot help consigning to it, small indeed is the probability of its dis-

charging well offices of a more complicated nature."*

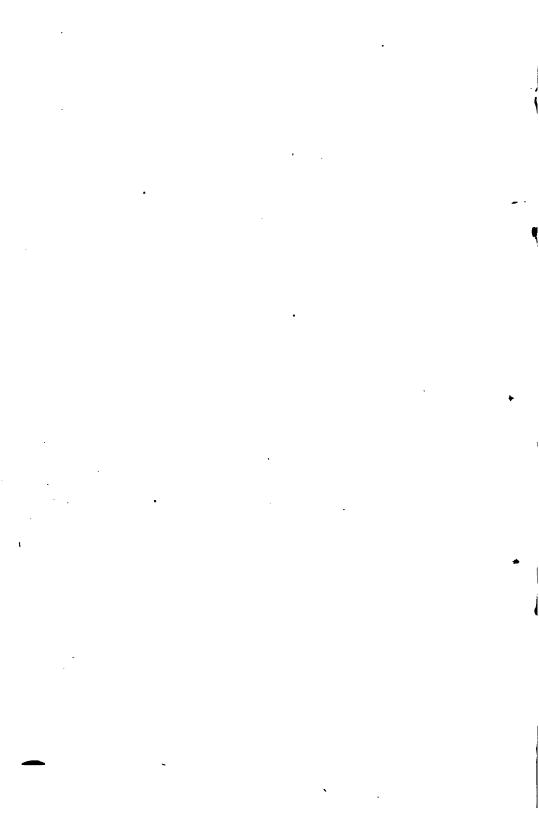
^{*}Herbert Spencer-Essays, Moral, Political and Æsthetic.

Some of the objections which present themselves against Socialism may be summarized as follows:

- (1)—Because, reasoning from effects, not causes, it aims to build a perfect organization with imperfect materials; to secure an equitable agent composed of units confessedly unjust, and have such agent react upon and change the habits, morals, and eliminate the vices of the very units by which said agent was established and is maintained—a more brainless, senseless scheme than that clutched at by the perpetual motion visionary.
- (2)—Because those who most need self-control, self-reliance and obriety must acquire those essential attributes of true manhood by the inconvenience and suffering caused by their present non-possession. The method of acquiring the complete development of a faculty is not by removing the necessity for its use.
- (3)—Because the genius of the age points to less government, not more, leaving social forces to guide humanity in its march to higher, nobler conditions. The Anglo-Saxon seeks room for individuality, and is justly jealous of an over-towering, all-absorbing, inquisitorial state.
- (4)—Because by a large capital only can a dense population be maintained or civilization progress, and this capital is accumulated by the acquisitive instinct of man in his individual and not in his "collective" capacity. Any interference which would render less intense the accumulative desire—which has not yet furnished the necessary material basis for reproduction—would but render a dense population impossible, retard all progress, and turn the civilization of to-day into the barbarism of past ages.
- (5)—Because the people "in their collective capacity," as already shown in the quoted extract, are incapable of performing the duties which would be imposed upon them.

Proving, however, that the schemes of Socialists are visionary and dangerous, by no means proves that the condition of the working people is what it should be. Indeed, the industrial classes have not, up to the present time, partaken equitably of the benefits resulting from the improvements of this century, and though wages are now positively higher than they were a hundred years ago, they are relatively lower when compared with production. In this direction, too, is the tendency of the times. Prof. Cairnes, a most careful economist, says upon this subject: "There is a constant growth of the national capacity, with a nearly equal decline in the proportion of capital [wealth] which goes to support productive labor, which can only result in a harsh separation of classes, combined with those glaring inequalities in the distribution of wealth which are the chief elements of our social instability." Capital is a benefactor to mankind; but the interests of labor and capital, under existing conditions, are by no means identical; and because workpeople are not satisfied with the present inequitable distribution of labor's products is rather deserving of commendation than censure. Denouncing or railing against the wages system or against capital, however, will remedy no evil, work no reform; and State aid would but rob some members of the community, and make paupers and

dependents of those whom it aimed to benefit. The attention and the hope of work-people should be directed to coöperative effort, distributive and productive. Coöperation will require self-denial, self-sacrifice, patience and perseverance, and failures will in this, as in all other great movements, precede any general marked or substantial success. Coöperation is the only road to independence for the many, and when intelligence, sobriety and morality are more prevalent among the industrial classes, neither fears nor doubts need exist as to their emancipation from capital—their emancipation from themselves.



COAL MINES.

INSPECTORS" RETURNS.

LASALLE COUNTY-1879.

				;	
Name of Mine.	Location of Mine.	Capital Invested.	Yearly Tonage.	em- ployed	Remarks.
Chicago, Wilmington and Vermillion Coal Co.	Streator	\$300,000	250, 000	929	This company runs two shafts—No. 1, 106 feet deep; No. 2, 86 feet deep. These mines are in good condition, and very ably managed. Capacity, 2,000 tons daily.
Northern Ill. Coal and Iron Co LaSalle	LaSalle	210,000	60, 00	170	170 This company own three shafts, namely: LaSalle, Rockwell and Kentucky. LaSalle, 232 to second and 335 to third vein. All in very good condition, well ventilated and safe to work in.
Illinois Valley Coal Co	LaSalle Tp	275, 000	58, 500		200 This company runs two shafts, Nos. I and 2. They are worked on the long wall plan, and are in very good repair. Well ventilated and propped, and fully up to the requirements of the law.
Oglesby Mine	Oglesby	175,000	45,000		138 This mine is in an indifferent condition.
Mattheson & Hegeler Mine	LaSalle	20,000	32, 100	51	This mine is in good condition and safe.
Union Coal Co	Peru	30,000	30,000		125 This mine is in only middling condition, not being over-well ventilated, but are now pushing to that end. In every other respect, they are fully up to the law.
Coal Run Mining Co	Streator	10,000	28,000		75 This shaft is but 40 feet deep, and nearly worked out. The company is opening another shaft of greater capacity.
Seneca Coal Shaft	Seneca	14,000	2,000		18 This shaft is in bad condition and very poorly managed, and will probably soon be abandoned.
Streator Coal Co	Streator	100,000	35,000	100	100 This shaft is in very fair condition.
Merrick Shaft. No. 2	Peru	28,000	8,000	ล	This mine is now owned by the Union Coal Go., and is idle and will probably remain so for some time.
O'Malley & Co's Shaft	Peru	12,000	2,000	16	to This shaft is idle for the last four months.
Marsailles Shaft	Marsailles	1,800	1,800	21	12 This is a new shaft, for country sales.
John Stoneham Shaft	Streator	5,000	2,000		8 This party has his mine in good condition.
Thos, C. Murray Drift	Hogs back	200	1,500		3 This drift is for country sales.
Robert Gatis' Shaft	Dimmick Tp.	908	1,500		² This is a country sales bank, and does very little in summer.

					,					17	5	
2 This is the same as above.	4.Sique)	6 Shaft		These small banks are in as good condition and as safe to id bhatt. Work in as can well be expected.		S. Slope	15 This shaft has been lately sunk to the third vein, a depth of 520 feet, and is being opened on the long wall plan.	22 This shaft has just been sunk; not mining coal yet.	25 These banks strip the coal vein, 2% feet thick.	8 These are very small banks.	20 Two of these are drifts, and two strip the coal.	5 Two of these are drifts, and two strip the coal.
1,500	25.200 2000	2,500 1,500	1.500	4.4.7. 000. 000.	000 000 000 000 000 000 000 000 000 00	2000 2000 2000 2000 2000 2000 2000	5, 		9,000	2,500	3,000	1,500
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Dimmek Tp 800	rentor		:::		:::	Kob, Fairburn. 8. Burton. Geo. Alexander. Wm. Maher.	aSalle	Peru 15	Six small banks, in and around Ottawa 6,	Four small banks, in and around Marsailles		Small banks, in and around Deer Park

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Condition of Mine as to Ventilation	ਾ ਹੁਂ
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No. Places of Egress	MUNHUHMUHHHH
Capacity of Produc- tion Annually, in Tons	ਸ਼ੵਸ਼ੑਸ਼ੑਖ਼ਲ਼ਲ਼ਖ਼ੑਖ਼ਲ਼ੑਖ਼ੑਸ਼ੵਫ਼ੑਲ਼ੑਜ਼ੑ ਖ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ ਖ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼ਫ਼
Amount of Capital Employed	4, 1, 6, 4,1,4, 6, 2,1,4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
Average Value of Coal per Ton at	222222222222222222222222222222222222222
Mine	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00
No Months Operated during Year	01010 10010
Persons under 16 yrs Employed in Mine	
Persons over 16 yrs Employed in Mine	8000-1000B218040
Kind of Power Employed in Bringing out or Hoisting	orse.
Coal	_ H
How Mined — by Drift, Slope or Shaft.	Shaft Drift Shaft Shaft Shaft Shaft
Depth of Coal below Surface, in Feet	828884588888888
Thickness of Vein, in Feet.	00000000000000000000000000000000000000
No. of Vein	
No. of Acres Worked out	∞∞α :∞τ :⊗τ∞∞54
No. Acres Workable Coal Land	88588888888888888888888888888888888888
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r Operator of Mine.	Spar Pera Blai Spar Stee Coul
Mine.	Spar Balain Spar Spar Stee Stee Stee Stee Stee Stee Stee Ste

Norg.-Men ascend and descend by ladder.

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	Condition of Mine as to Ventilation	88888888888888888888888888888888888888	The mine in NE. %, NW. %, Sec. 4. T. 12 N., B. 12 W., 3d ought to be paid for all merchantable coal. Two ment Mt. Olive, in the same manner. One man injured at
	No.Places of Egress Capacity of Produc- tion Annually, in Tons.		i. 12 N., B e coal. re man
	Amount of Capital Employed	600 600 600 600 600 600 600 600 600 600	c. 4, T intabl r. Or
	Average Value of Coal per Ton at the Mine		½, Se percha nanne)
	No. Tons Coal Pro- duced during Year	48.21 6.15.060 6.122 6.122 7.123 7.1	rall n ame n
	No. Months Operated during Year No. Persons under 16		NE. ½ aid for the sa
	Employed in Mine No. Persons over 16 Employed in Mine	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ne in J be pa ve, in
	Kind of Power Employed in Bringing out or Hoisting Coal	Steam.	The misought to
-1879	How Mined — by Drift, Slope or Shaft.	Shaft.	The miners re injured, a
ry.	Depth of Coal below Surface, in Feet	88.500 88.800 88	The Tre inj
NDO	Thickness of Vein, in Feet No. of Vein	ന് വന്ത്രവര്യവന്ത്ര നേറ്റ്വവസ്യവേശവന്ത്ര	numb oal. 3n we
5	No.of Acres Worked out.		fon to nu nous coa ree men of siate.
PIN	No. Acres Workable Coal Land		mitation to number of men. situminous coal. The miner of Three men were injured,
MACOUPIN COUNTY-1879	Post Office Address	Staunton Mount Olive Variden Carlinville. Nilwood Girand. Bunker Hill Carlinville. Staunton. Bunker Hill Chesterfield.	without hinches of hille minin
—12	Name of Owner or Operator of Mine.	Fuller, Young & Co John Utt T. B. Loomis Peter Compenser Henry Cooper & Sons Wm. Neil Changed hands lately (changed hands lately) Module Dans Thomas Balby Wm. Carlin T. J. Hart	Note.—All mines ought to have escapement shafts, P. M., is composed of 12 inches of cannel coal and 18 i were killed, at Staunton, by coal falling upon them will virden—his own carelessness. One man injured, at M.
12			

	Condition of Mines as to Ventilation.	# 12
	No. Places of Egress Capacity of Produc- tion Annually in Tons	000 (9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Amount of Capital Employed	25,000
	Average Value of Coal per Ton at Mine	<u> </u>
	No. Tons Coal Pro- duced during Year No. Months Operat-	2 22 P44424 11 82 X
	ed during Year No.Persons under 16 Employed in Mine	-
	No. Persons over 16 Employed in Mine Kind of Power Em-	S SS SSSSSS
	ployed in Bringing out or Hoisting Coal.	Mules Horse Man
	How Mined — by Drift, Slope or Shaft	Tunnt Tunnt Tunnt Tunnt
NTY.	Depth of Coal below Surface, in Feet Thickness of Vein,	<u> </u>
ACKSON COUNTY	in Feet,	8 888887-408
NO	No. Acres Workable Coal Land	3 82 2442424
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	Post Office Address.	Murphysboro Murphysboro Grand Tower. Ava. Cabondale. Cabondale. Jackson coun Jackson coun
	Operator of Mine.	Lewis Coal
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	Name of Owner or	ide Coal Co operators of operators of it Tower Min nsportation ham's Min ham's Min hell Brush Min erman Min Hill Mine
•	3 0 <u>a</u>	Bru Bru Mill M
	Nam	Gartside Coal Company. Samuel Bouscher, owner Co., operators of mine, Grand Tower Mining, Mat Transportation Co., Cheatham's Mine, Samuel Brush Mine, Campbell Hill Mines, Cram Hill Mine, Cram Hill Mine,

Note.-Two accidents occurred during the year by falling of slate, not serious carelessness on the part of the person being huri, at Lewis Coal Mine.

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Condition of Mine as to Ventilation	Good
No.Places of Egress Capacity of Produc-	
tion Annually in Tons	200665266652666526665266652666526665266
Employed	80.0 8.1
Coal per Ton at	252 28 28 28 28 28 28 28 28 28 28 28 28 28
No. Tons Coal Produced during Year No. Months Operat-	SOL SILL
ed during Year No.Persons under 16 Employed in Mine	
No. Persons over 16 Employed in Mine	2 4-2-4000-4000-000000000000000000000000
Kind of Power Employed in Bringing out or Hoisting Coal	Steam. Mules. Horse. Horse. Horse. Horse. Horse. Horse. Horse. Horse. Horse.
How Mined — by Drift, Slope or Shaft	Slope Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt Shatt
Depth of Coal below Surface, in Feet.	588882888842824458884
Thickness of Vein, in Feet No. of Vein	444444404004400004044000444
No.of Acres Worked out.	:42
No. Acres Workable Coal Land	
Post Office Address	
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or Ope	enman Wakelan n Drum.
Name of Owner	is Son 1 ie ie alter d Joh 1
of O	b. Ell B. Ell Pater ylor. Parks. ine. Guthr Guthr Guthr Guthr Junter Jen Junter Junter Junter Junter Junter Junter Junter Junter Junter
Name	P. L. Cable. Bichard B. Ellis Charles Peterson. E. Boden and Wm. P. Bobt. Taylor J. Tidball Russel Parks Samuel Guine. Samuel Griffin Bros. Geo. Langston Edward Heggs Walter Hunter. L. R. Hyett. L. R. Hyett. L. R. Hyett. D. Welsh D. Welsh Tim Martin and John John Anderson John Anderson J. M. Kaacscon J. M. Kaacscon J. M. Kaacscon J. M. Kaacscon Thos. Ashby
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Condition of Mine as to Ventilation	Gọọd.
No Places of Egress	20 :0111111100 :11 :111100111111111
Capacity of Produc- tion Annually, in Tons	30000
Amount of Capital Employed	
Average Value of Coal per Ton at Mine	
No. Tons Coal Pro- duced During Year	00000000000000000000000000000000000000
No. Months Operated During Year	<u> </u>
No. Persons und'r 16 Employed in Mine.	ងនន
No. Persons over 16 Employed in Mine.	880 880 880 880 880 880 880 880 880 880
Kind of Power Employed in Bringing Out or Hoisting Coal	2 22 124 12
How Mined - by Drift. Slope or	4 : : : : : : : : : : : : : : : : : : :
Shaft	Shaft of the first
Depth of Coal below Surface, in feet	2888888888888
Thickness of Vein, in feet	00000000000000000000000000000000000000
No. of Vein.	
No. Acres Worked Out	70
No. Acres Workable Coal Land.	83424288 50 03440
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Name of Owner or Operator of Mine.	h Coal Co. A. C. Daniel, Supt. and S. Coal Co. Gen. Carnahan. Supt. Farnce. Coal Shaft Shaft Relly Shaft Are Mrs. Hall owner Shaft, Wm. Moore Shock Shaft, Wm. Moore Carnahan. Shaft Shaft, Wm. Moore Shock Shaft, Wm. Moore Shock Shaft, Wm. Moore Carnahan Shaft
Name	Elsworth Coal Treas. Treas. Diamond Coal M. & F. France Jordon Coal Si William Kelly. Eliza Loyd. Hall's Shaft. Eliza Loyd. Hall's Shaft. William Davis. William Davis. John E. Davis. William Davis. John E. Davis. A. Jenkins. A. Jenkins. A. Jenkins. John Fisher. George Holton Homas Thomas Price. Henry Jones Hanry Jones

VERMILION COUNTY-1879.

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LASALLE COUNTY-1879.

Name of Mine.	Location of Mine.	Capital Invested.	Yearly Tonage.	Men em- ployed	Remarks.
Chicago, Wilmington and Vermilion Coal Co	er- Streator	\$300,000	250, 000	550	This company runs two shafts—No. 1, 106 feet deep; No. 2, 86 feet deep. These mines are in good condition, and very ably managed. Capacity, 2,000 tons daily.
Northern Ill. Coal and Iron Co LaSalle	LaSalle	210,000	60, 000	170	170 This company own three shafts, namely: LaSalle, Rockwell and Kentucky. LaSalle, 22 to second and 385 to third vein. All in very good condition, well ventilated and safe to work in.
Illinois Valley Coal Co	LaSalle Tp	275,000	58, 500	008	200 This company runs two shafts, Nos. 1 and 2. They are worked on the long wall plan, and are in very good repair. Well ventilated and propped, and fully up to the requirements of the law.
Oglesby Mine	Oglesby	175,000	45,000		138 This mine is in an indifferent condition.
Mattheson & Hegeler Mine	LaSalle	20,000	32, 100	51	51 This mine is in good condition and safe.
Union Coul Co	Peru	30,000	30,000		125 This mine is in only middling condition, not being over-well ventiliated, but are now pushing to that end. In every other respect, they are fully up to the law.
Coal Run Mining Co	Streator	10,000	25,000		75 This shaft is but 40 feet deep, and nearly worked out. The company is opening another shaft of greater capacity.
Seneca Coal Shaft	Seneca	14,000	7,000		18 This shaft is in bad condition and very poorly managed, and will probably soon be abandoned.
Streator Coal Co	Streator	100,000	32,000		100 This shaft is in very fair condition.
Merrick Shaft. No. 2	Peru	25,000	8,000		25 This mine is now owned by the Union Coal Go., and is idle and will probably remain so for some time.
O'Malley & Co's Shaft	Peru	12,000	7,000		le This shaft is idle for the last four months.
Marsailles Shaft	Marsailles	1,800	1,800	12	12 This is a new shaft, for country sales.
John Stoneham Shaft	Streator	5,000	2,000		8 This party has his mine in good condition.
Thos, C. Murray Drift	Hogs back	200	1,500		This drift is for country sales.
Robert Gatis' Shaft	Dimmick Tp.	. 800	1,500		2 This is a country sales bank, and does very little in summer.

12 2,000 115 500 6,000 2 Bad. 12 9,600 115 6,000 2 Medium. 12 9,600 118 6,000 20,000 2 Medium. 12 2,000 118 6,000 20,000 2 Medium. 12 2,000 118 1,000 20,000 2 Medium. 12 2,000 118 1,000 20,000 2 Medium. 12 2,000 118 5,000 20,000 2 Medium. 12 2,000 118 5,000 20,000 2 Bad. 12 1,000 115 100 2,000 2 Bad. 12 1,000 115 200 2,000 2 Medium. 12 1,000 115 200 2,000 2 Medium. 12 1,000 115 200 2,000 2 Medium. 13 2,000 2 Medium. 14 12 1,000 115 200 2,000 2 Medium. 15 2,
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Brimfield Pekin Mapleton Kingston Mines Mapleton Mapleton Glasford Peoria
Brimfield Pekin Mapleton Kingston Mines Mapleton Glasford Peoria

'New mine, first opened. † New mine, undeveloped.

Nore.—Something ought to be done concerning the law in regard to maps of mines. As it now reads, 3 maps are required, viz., one to be kept at the office of the mine, one to be filed with the Inspector of Mines in its office, and one to be filed with the law be changed that the law be changed to read; one map to be kept by the Operator of the mine under the jurisdiction of Mine Inspector. In regard to Inspectors of Mines, I would suggest that the State mining of districts, and an Inspector be appointed by the Governor for each district. The burden, in that way would be equally divided into three mining districts, and an Inspector be appointed by the Governor for each district. The burden, in that way would be equally divided, and the Inspector of hines would have an office that would sustain him, wherein they could give their full attention to the part of the Inspector to put and keep the mines in a healthy and safe state of verditation, as the operators of mines will not improve their mines or increase their ventilations unless they are compelled to do so. The mines are all alike, with a few exceptions, and the general case that he as long as it is not certain death to go into a place, the miner is compelled to work it, for he knows by experience if he goes somewhere else that he will get just as bad a place, and perhaps worse, as it is always the rule among operators to give the last that comes the bad places to work, and some of these places are that bad that the miner is compelled to hang his lamp is 75 29 feet further out than where he works in order to keep a light. There are no fire damps observable in this county, the trouble is with what is called black damp, or choke damp, and nearly all the mines in this county are filled with it, and unless there is a good circulation of air kept moving all the time, it becomes very dangerous.

Condition of Mine as		
to Ventilation	Fair. Good Good Good	Good
No. Places of Egress	യെലയിലെയുന്നു വയായുന്നു വയായു വയായുന്നു വയായുന്നു വയായുന്നു വയായുന്നു വയായുന്നു വയായുന്നു വയായ	1000000
Capacity of Produc- tion Annually, in Tons	1,2000000000000000000000000000000000000	880 800 4,000 1,500 1,200
Amount of Capital Employed	#65-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	8,000 8,000 500 500
Average value of Coal per Ton at Mine	**************************************	1323
No. Tons Coal Pro- duced during year	9.500 9.500	1, 200
No. Months Operated during year	ವ್ವಹಪ್ಪಣ್ಣ ಪ್ರಹ್ಯಾಪ್ ಪ್ರಪ್ತಿಸ್ತಾಪ್ ಪ್ರಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ತಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ಟಿಸಿ ಪ್ರಸ್ತಿಸ	<u>⊡</u> ∞∞∞∞∞ ∞
No. Persons Under 16 Employed in Mine	<u></u>	ම විසිම්
No. Persons Over 16 Employed in Mine Kind of Power Em-		
ployed in Bringing Out or Hoisting Coal	SE H SE H SE H SE H SE H SE H SE H SE H	Horse
How Mined — by Drift, Slope or Shaft	Shaft Drift Shaft Shaft Shaft Shaft Shaft Shaft Shaft Shaft Shaft	Drift Slope Drift Shaft
Depth of Coal below Surface, in Feet	8282 888 588888888888888888888888888888	8888348
Thickness of Vein, in Feet	<u> </u>	444440
No. of Vein		
No. Acres Worked Out		%cı
	\$48821	40 40 6 40 40 6
No. Acres Workable Coal Land		6 04 04 04 04 04 04 04 04 04 04 04 04 04
No. Acres Workable Coal Land		2, 40, 04, 04, 04, 04, 04, 04, 04, 04, 04
No. Acres Workable Coal Land	6 H 88 B 88 B 88 B 88 B 88 B 88 B 88 B 8	,ver 6
No. Acres Workable Coal Land	on control on control	,ver 6
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Out	on control on control	ver 6
No. Acres Workable Coal Land No. Acres Workable Goal Land Book of the coal coal coal coal coal coal coal coal	on control on control	,ver 6
No. Acres Workable Coal Land No. Acres Workable Goal Land Book of the coal coal coal coal coal coal coal coal	Kewanee 400 120	,ver 6
No. Acres Workable Coal Land No. Acres Workable Goal Land Book of the coal coal coal coal coal coal coal coal	Kewanee 400 120	,ver 6
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Mine. Out	and Mining Co. Kewanee 400 1 120 n.	,ver 6
Mine. Out	aries. with Mining Co. Backer Backer Backer Backer Atkinson	Decil Green River 6 Co Co Geneseo 40 Co Co Co Co Co Co Co C
Mine. Out	Coal and Mining Co. Kewanee 400 12	December Composition Com
Out	Joal and Mining Co. Kewanee 400 Inaries 120 fartin 120 fartin 120 fartin 20 fartin 20 fartin 20 fartin 60 ney 60 <td> Dipbell Green River 6 100 </td>	Dipbell Green River 6 100

HENRY COUNTY-1880.

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Condition of Mine as to Ventilation		b у а сс
No.Places of Egress	188188	led
Capacity of Produc-	•	ck ki
Tons	25,000 25,000 30,000 25,000	Corm
Average Value of Coal per Ton at	2500 1125 125 125 125 125 125 125 125 125 12	3k Me
Mine No. Tons Coal Pro- duced during Year	36,341 8,435 1,300 1,300 1,654	Patri
No. Months Operated during Year	222022	80.
No.Persons under 16 Employed in Mine		2, 18
No. Persons over 16 Employed in Mine	<u> පිළි</u> පිසු සහ ස	arch
Kind of Power Em- ployed in Bringing Out or Hoisting Coal	Steam.	of slate at C. B. Laning & Co.'s shaft, March 2, 1880. Patrick McCormick killed by acci-
How Mined-by Drift, Slope or Shaft	Shaft .	Co.'s s
Depth of Coal below Surface, in Feet	825283	ay Stu
Thickness of Vein.	000000	anin
No. of Vein	255556 -183831	B. I
No.of Acres Worked Out		t C.
No. Acres Workable Coal Land	2011 2011 2011 2011	ate a
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Post Office Address.	Petersk Tallula Petersk '	the accidental
		by the
or Operator of Mine.		led by i
of M		kill
tor		ber enk
96 ra		llag Fr
r 01		Ga
	o	mee
Name of Owner	& C son	ac—Ja
) j o	ing Ikin ing. ner ad. ter.	TTS.
ine.	Lan Wi Wi rul Joni Park	DEN.
Na R	C B Laning & Co Frank Wilkinson. TF Laning. Wolf Fruhat P. L. Conrad. Wm. Parker.	ACCIDENTS.—James (dentally falling down t
	೧೬೯∖≱೮	g.

MENARD COUNTY-1880.

Condition of Mines as to Ventilation..

Condition of Mines as to Ventilation.	2 C C C C C C C C C C C C C C C C C C C	
No.Places of Egress		
Capacity of Production Annually in Tons.	40,000 120000 1,900 800 800 800 800 800 900 400	
Amount of Capital Employed	75,000	•
Average Value of Coal per Ton at Mine	8 28 : gasasasa	
No. Tons Coal Pro- duced during Year	12 11, 107 12 25, 128 12 25, 000 6 882 7 400 8 3 100 9 900	
No. Months Operated during Year	::	
No.Persons under 16 Employed in Mine	ro ross : 4 : : : :	
No. Persons over 16 Employed in Mine	₩ 5 <u>8</u> :	
Kind of Power Em- ployed in Bringing out or Hoisting Coal.	Steam. Mules. Horse. Man Horse.	
How Mined — by Drift, Slope or Shaft	Shaft Tuṇn'l Shaft. Tuṇn'l	
Depth of Coal below Surface, in Feet	g 5338 8988338	
Thickness of Vein, in Feet,	0 000000000000000000000000000000000000	_
No. of Vein		_
No.of Acres Worked	8 88888e4-490	-
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No. Acres Workable Coal Land	1,200 200 200 200 200 200 200 200 200 200	
No. Acres Workable Coal Land	1,200 200 200 200 200 200 200 200 200 200	_
No. Acres Workable	1, 200	_
No. Acres Workable Coal Land	0 1,200 0 300 1 20	_
No. Acres Workable Coal Land	0 1,200 0 300 1 20	_
No. Acres Workable Coal Land	0 1,200 0 300 1 20	_
No. Acres Workable Coal Land	1,200 30	
No. Acres Workable Coal Land	1,200 30	_
out	Murphysboro 1,200 300	_
out	Murphysboro 1,200 300	
out	Murphysboro 1,200 300	
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out	Murphysboro 1,200 Recturing and Grand Tower 200 Ava Carbondale 400 Carb	
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out	Murphysboro 1,200 Recturing and Grand Tower 200 Ava Carbondale 400 Carb	
No. Acres Workable Coal Land	Murphysboro 1,200 Recturing and Grand Tower 200 Ava Carbondale 400 Carb	
out	Murphysboro 1,200 Murphysboro 300 Grand Tower 80 Ava 40 Carbondale 40 Carbondale 40 DeSto 80 Jackson county 40 Jackson county 40 Jackson county 40 Backson county 40 Jackson county 40	

JACKSON COUNTY.

Nore.—Two accidents occurred during the year by falling of slate not serious carelessness on the part of the person being hurt, at Lewis' Coal Mine.

Condition of Mine as to Ventilation	Good
No.Places of Egress	
Capacity of Produc- tion Annually in Tons	
Amount of Capital Employed	20, 000 5, 700 6, 700 800 800 800 150 150 150 150 150 160 160 160 160 160 160 160 160 160 16
Average Value of Coal per Ton at Mine.	
No. Tons Coal Pro- duced during Year	12.521 1.5721 1.2818 1.12818 1.2818 2.806
No. Months Operated during Year	
No.Persons under 16 Employed in Mine	
No. Persons over 16 Employed in Mine	2 4-0-0000-40000000000000000000000000000
Kind of Power Em- ployed in Bringing out or Hoisting Coal.	Steam Mulos Horse Man Horse Horse Man Horse Man Horse Kan
How Mined — by Drift, Slope or Shaft	haft haft haft haft haft haft haft haft
Depth of Coal below	5688829898884395145898439882
Surface, in Feet Thickness of Vein,	4444444949494494944 % % % % % % % % % % % % % % % % % % %
No. of Vein	
No. of Acres Worked out.	
No. Acres Workable Coal Land	ı
Post Office Address.	Cable Cable Cable Preemption Preemption Viola Viola Viola Viola Viola Viola Viola Millersburg Millersburg Millersburg Viola Millersburg Millersburg Millersburg Millersburg Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola Millersburg Niola
Name of Owner or Operator of Mine.	P. I. Cable. Richard B. Ellis Elichard B. Ellis E. Boden and Wm. Penman Boht, Tavlor I. Tidball. Russel Parks Wm. Baine Griffin Bros. J. Dack and Walter Wakeland Edward Heggs J. Dack and Walter Walter Hunter I. R. Hyett. I. R. Hyett. I. R. Hyett. J. Welsh Henry Tarr Stephen Tarr John Morrow John Morrow John Morrow John Morrow John Anderson John Anderson John Anderson John Anderson J. M. Isaacson Thos, Ashby.

MERCER COUNTY-1879.

	to Ventilation	0000 0001 - 1
	No Places of Egress	800 :01
	Capacity of Produc- tion Annually, in Tons	30000 1120000
	Amount of Capital Employed	
	Average Value of Coal per Ton at Mine	22
	No. Tons Coal Produced During Year	25.000000000000000000000000000000000000
	No. Months Operated During Year	ස්ස්කට කට කට කට කට කට කට කට කට කට කට කට කට ක
	No. Persons und'r 16 Employed in Mine.	8888
	No. Persons over 16 Employed in Mine.	ଚିତ୍ରକଳ୍ପରରୁଷ୍ଟର୍ଗତ୍ୟ ସେଷ୍ଟ ବର ୁତ୍ରତ୍ୟ ସେଷ୍ଟଳ୍ଲଗ୍ରନ୍
က်	Kind of Power Employed in Bringing Out or Hoisting Coal	Steam Horse Horse
COUNTY-1879	How Mined — by Drift, Slope or Sheft	Shaft. Shaft. Drift. Shaft. Drift. Drift. Drift.
ŢŢ	Depth of Coal below Surface, in feet	858851888
Z O	Thickness of Vein, in feet	000000000000
3	No. of Vein No. Acres Worked	76
	No. Acres Workable Coal Land	834342488 3a 2444
VERMILION	Postoffice Address.	Danyille. Gatin. Pairmount Danyille. Catin. Danyille. Catin. Catin. Danyille. Catin. Catin. Catin. Danyille.
	Name of Owner or Operator of Mine.	Elsworth Coal Co. A. C. Daniel, Supt. and Treas. Diamond Coal Co. Gen. Carnalian. Supt. A. F. France. Jordon Coal Shaft. Louis Yeach. Michael Kelly. Eliza Loyd. Hall's Shaft. Michael Kelly. Eliza Loyd. Hall's Shaft. John E. Davis. William Davis. William Davis. C. Dobbins. Martin Shaft. John E. Davis. William Davis. C. Dobbins. Amarin Shaft. Joseph McBroon. Hiram Jerks. C. Dobbins. John Flaher. George Holton. Thomas Thomas. John Fisher. George Holton. Thomas Thomas. Thomas Thomas. Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones Henry Jones

VERMILION COUNTY-1879.

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Danville			i		
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PEORIA COUNTY-1879.

Condition of Mine as to Ventilation	Bad. GGood. Bad. Medium. Medium. Bad.	Bad.
No. Places of Egress	03309090909090909090909090909 4	301010101
Capacity of Produc- tion Annually in Tons	6.4.17.07.07.51.17.00.00.00.00.00.00.00.00.00.00.00.00.00	5 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Amount of Capital Employed	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 :8888
Average Value of Coal per Ton at Mine.	22822222222222222222222222222222222222	
No. Tons Coal Pro- duced during year	45a	r. 868638
No. Months Operated during year	<u> </u>	
No.Persons Under 16 Employed in Mine		64 60
No. Persons Over 16 Employed in Mine		
Kind of Power Em- ployed in Bringing Out or Hoisting Coal	Mule Mule Steam Mule Steam Mule Mule	:::::: ::::::
How Mined - by Drift, Slope or		Shaft Drift Slope
Shaft		송명 : 역왕 : 고집단절 전
Thickness of Vein,	<u> </u>	********
No. of Vein No. of Acres Worked	846585588 5688665588 55888	8 :4 r. : :
No. acres Workable Coal Land	888228884118884448844688888888888	
Post Office Address,	Peoria Pekin Peoria Peoria Peoria Peoria Poffstown	
Name of Owner or Operator of Mine.	William Barton Adam Sholl Same Sholl Same Janna F. Lannar F. Lannar F. Lannar James Moura G. & E. Brost James Mulegan F. Mahn Per Grant F. Mahn Per Grant F. Mahn Per Grant F. Mahn Per Grant F. Mahn Per Janes Willian Randle Samuel Potts Henry Vickery Henry Vickery William & Co. William & Wanting W. J. Phelps & Son W. J. Phelps & Son W. J. Phelps & Son	W. H. Langden & Son Z. Clark Wm. Huli Chas. Hays John Tully.

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Brimfield Pekin Mapleton Kingston Mines Mapleton Glasford Peoria
Brimfield Pekin. Mapleton. Kingston Mine Mapleton. Glasford.
Brimfield Pekin Pekin Mapleton Kingston Mine Mapjeton Glasford Peoria
Brimfield Pekin Mapleton Kingston Mine Mapleton Glasford Peoria
Brimfield Pekin Pekin Mapleton Kingston Mine Mapjeton Glasford Peoria
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Brimfel Pekin Mapleton Kingstor Kingstor Kapleton Mapleton
Brimfel Pekin Mapleton Kingstor Kingstor Kapleton Mapleton
Brimfel Pekin Napleton rd Kingstor Kingstor Mapleton dsly Glasford Peoria
Brimfel Pekin Napleton rd Kingstor Kingstor Mapleton dsly Glasford Peoria
Brimfel Pekin Mapleton In Mapleton Mapleton Glasford Royster Royster

* New mine, first opened. † New mine, undeveloped

Nore.—Something ought to be done concerning the law in regard to maps of mines. As it now reads, 3 maps are required, viz., one to be kept at the office of the mine, one to be filed with the Inspector of Mines in his office, and one to be filed with the Inspectors of maps to be made every January following, who is to make extensions on maps in Recorder's office. I would suggest that the law be changed to read. One map to be kept by the Operator of the mine under the jurisdiction of Mine Inspector. In regard to Inspectors of Mines, I would suggest that the State be divided into three mining districts, and an inspector ob appointed by the Governor for each district. The borden, in that way, would be equally divided, and the Inspector of Mines would have an office that would sustain him, wherein they could give their full attention to the mining business, which is surely needed, whereby their reports would be more full and more reliable. It will require constant attention upon the part of the Inspector to put and keep the mines in a healthy and safe state of ventilation, as the operators of mines will not improve their mines on a place, the mines are all alike, with a few exceptions, and the general ere that he will get instead as long as it is not extrain death to go into a place, the mines is compelled to work it, or he knows by experience if he goes somewhere else that he some of these places are that bad that the mines is eighelled to hang his lamp is or 20 feet further out than where he works in order to keep a light. There are no fire damp, and nees in a good circulation of air kept moving all the time, it becomes very dangerous.

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Condition of Mine as to Ventilation	Good. Good. Good. Good. Good. Good.
No. Places of Egress	с: присти на при при при при при при при при при при
Capacity of Produc- tion Annually, in Tons	1,1500000000000000000000000000000000000
Amount of Capital Employed	20000000000000000000000000000000000000
Average value of Coal per Ton at Mine	3. 3938
No. Tons Coal Pro- duced during year	88 88 88 88 88 88 88 88 88 88 88 88 88
No. Months Operat- ed during year	
No.Persons Under 16 Employed in Mine	
No. Persons Over 16 Employed in Mine	31 320000000440000000000000000000000000000
Kind of Power Em- ployed in Bringing Out or Hoisting Coal	Steam. Horse. Horse. Steam. Horse. Horse. Horse. Horse. Horse. Horse.
How Mined — by Drift, Slope or Shaft	Shaft Bloift Bloift Shaft Shaft Shaft Shaft Shaft Shaft Shaft Shaft
Depth of Coal below Surface, in Feet	<u>8588 888 1888 88</u>
Thickness of Vein, in Feet	वं च च क क क कं कं क क क क क क क क क क क
No. of Vein No. Acres Worked	8.8 1516
Out	
No. Acres Workable Coal Land	\$125 = 4821 8
Post Office Address.	Kewanee Atkinson Atkinson Galva Garbridge Cambridge Greend Green River Geneseo Greeseo Kewanee
Name of Owner or Operator of Mine.	Lathrop Coal and Mining Co. Sumuel Charles William Martin Robert Price J. Carles J. Carles G. Graland C. Frace Hugh Fraces Hugh Fraces Thos. Earles Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Whitehouse Thos. Earle G. Walker J. Radgell J. Roore E. G. Ball C. W. Forg J. Radgell J. Roore J. Radgell J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Roore J. Walse J. Whilems J. Wilson & Co. Perry & Co. Perry & Co. Perry & Co. Rourbell Wilson & Co. Willemar York Hugh Jos. Whenar Vols Walsey

HENRY COUNTY-1880.

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Condition of Mine as to Ventilation.	-si	Se .
as to ventilation	<u> </u>	<u>5</u>
No.Places of Egress		l ed
Canacity of Produc-	<u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u>	E
tion Annually, in Tons		lick
Amount of Capital	333388	er o
Employed	* ల్లొవ్ర 4 ట్రిల్ల	Ü
Average Value of Coal per Ton at	888888	2
Mine	***************************************	. <u>P</u>
No. Tons Coal Pro-	86,341 8,435 1,360 1,654	Pat
duced during Year	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
No. Months Operated during Year		188 0.
No.Persons under 16 Employed in Mine		e,
No. Persons over 16 Employed in Mine	ලිසි දින ස න ස	arc
Kind of Power Employed in Bringing Out or Hoisting	se. in	×
Out or Hoisting Coal	Stean Horse Stean Horse	haft
How Mined-by		50 50
Drift, Slope or Shaft	Shafft	လ
Depth of Coal below	88 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	<i>≥</i> 3
Surface, in Feet Thickness of Vein.	00000	ai a
m reet		La
No. of Vein	400000	m,
Out	9	່ວ່
No. Acres Workable Coal Land	9851 7198	hed by the accidental fall of slate at C. B. Laning & Co.'s shaft, March 2, 1880. Patrick McCormick killed by acciliknson shaft, at Tallula.
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Post Office Address.	Petersk Tallula Petersk ''	ac haf
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Name of Owner or Operator of Mine.	ng & Co. kinson. Ng. ng. ng. ng. ng.	CCIDENTS.—James Gallagher Itally falling down the Frank
· WDC) Šģ	R 7
6	aning & (Wilkinsor aning	ing.
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N 8	B. L. C. F. H.	Accident dentally fall
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MENARD COUNTY-1880.

WILLIAMSON COUNTY-1879.

Condition of Mine	00d.
as to Ventilation	Not so
No.Places of Egress	-86
Capacity of Produc- tion Annually, in Tons	3,600
Amount of Capital Employed	5,000
I	⇔ಜ್ರೄ_
Average Value of Coal per Ton at Mine	22 88
No. Tons Coal Produced during Year	66, 645 2, 000
No. Months Operated during Year	219
No.Persons under 16 Employed in Mine	일 :
No. Persons over 16 Employed in Mine	1510
Kind of Power Employed in Bringing Out or Hoisting Coal	Steam. Horse.
How Mined-by Drift, Slope or Shaft	Slope . Shaft .
Depth of Coal below Surface, in Feet	88
Thickness of Vein,	
No. of Vein	
No. of Vein No. of Acres Worked Out	30
No. Acres Workable Coal Land	30
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16.	Coke Company
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Operator o	e C
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Name of Owner	Carbondale Coal and F. B. Williford
me	nda Villi
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WOODFORD COUNTY-1879.

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12 60,000	shaft wil shaft wil sus natur , or distr inties su m to qua
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552 Shaft . Steam. 25	nrany, th No decisio een no ac ctory that ors is not \$20 or \$50
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	l and circu w. T be m alary ical
<u>-</u> -	c Coa st, in ith la rould he si pract
Chicago	icago and Minonk ght suit, in May la pel compliance w hio Mining Law w the present law to of necessity, be a
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Miner T. Ames. Chicago	Nore—The style of the company is the Chicago and Minonk Coal and Coke Company, the only mine in the county. The manager did not show a disposition to comply with the law. Brought suit, in May last, in circuit court. No decision as yet. Think shaft will be in better and safer conditions at a transfer or construction at the advance of the requiring investigation. In my independ a law similar to the Ohio Mining Law would be more satisfactory than the present law, or district the State, limiting number of inspectors to number of districts. Under the present law, or district the State, limiting number man to attend to it, and appeared the connection of the law requires. Under the present law the salary of inspectors is not sufficient in counties such as this, to pay a competent enforcement of the law requires.

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MADISON COUNTY-1879.

	Condition of Mine as to Ventilation	Fair. Very bad. Fair.
	No. Places of Egress	8888888888
	Capacity of Produc- tion Annually in Tons	
	Amount of Capital Employed	90 \$1500 90 60, 700 90 60, 700 90 300 90 9, 900 90 50, 900 90 7,000
	Aggregate Value of Coal per Ton at Mine.	\$2000000000000000000000000000000000000
	No. Tons Coal Pro- duced during year. No. Months Operat-	7442 84 17447 798 84 17447
	No. Persons under 16	1 0 10 10 10
	No. Persons over 16 Employed in Mine.	Sx Bx L Sux Sus
	Kind of Power Employed in Bringing Out or Hoisting Coal	Men Horse. Steam. Horse. Steam. Steam. Steam.
.628	How Mined - by Drift, Slope or Shaft	Drift Shaft Shaft Shaft Shaft
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000	No. Acres Worked Out	588884-48888
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TAZEWELL COUNTY-1879	Office Address	n Oity.
	Post	Peor Hilto Pekii
	Name of Owner or Operator of Mine.	J. G. Vogelsang James Murry, Wesley Coal Co George Millard Joseph Rusin & Bro Nyillian Rundle John B. Ledermain Norman Halley Martin Stoner Martin Stoner

Nore.—Permit me to make a few remarks relative to the power of the Inspector of Mines: In the first place the Inspector is appointed by the board of supervisors, and they are principally all farmers, and no nothing about the working or management of coal mines in the least. I think the Inspector should have full power delegated to him to examine all foremen that take charge of coal mines, to see if they are fully competent to fill the duty assigned them, which is not delegated by law.

Condition of Mines as to Ventilation.. Good. No. Places of Egress \$145 100000 Capacity of Produc-tion Annually in Tons... 30,000 Amount of Capital Employed..... Average Value of Coal per Ton at Mine.... 12 25,000 12 25,000 12 25,000 12 25,000 12 25,000 12 25,000 12 25,000 13 25,000 14 25,000 17 25, No. Tons Coal Produced during year. No. Months Operat-ed during year.... No. Persons under 16 Empl'd in Mine. No. Persons over 16 Employed in Mine. 8828 Kind of Power Em-ployed in Bringing Out or Hoisting Coal Steam Horse. Horse. How Mined - by Drift, Slope or Shaft. Shaft. Depth of Coal Below Surface in Feet ... Thickness of Vein No. of Vein..... No. Acres Worked Out.... No. Acres Workable Coal Land..... Post Office Address. Coal City..... Coal City. Morris Morris..... Braceville Suffern Bros. Wm. George Name of Owner or Operator of Mine. Vm. George John Steel Star Coal Mining Co. Goold Ridge Coal Co. H. Burrell & Co. Bruce Coal Co. A. Watson J. Gorleh N. McBride Roakes. Mallory & Ross. Nrsv. Pratt. Mrs. Pratt. Frank Gilbride.... John Buck

GRUNDY COUNTY—1879.

	Condition of Mine as to Ventilation.	Good. Bood. Brine. Moderate. Fine. Bad. Good. Good. Foor. Good. Foor. Good. Foor. Good. Foor. Good. Foor. Good. Foor. Good. Foor. Good. Foor. Good.
	No.Places of Egress Capacity of Production Annually in Tons.	8.05.15.01.02.1.02.1.02.00.000.000.000.000.000.
	Amount of Capital Employed	######################################
	Average Value of Coal per Ton at Mine	\$82283; 3; 43888; 5; 882388283;8382883
	No. Tons Coal Pro- duced during year	2 6134 614 614 614 614 614 614 614 614 614 61
	No. Months Operated during year No.persons under 16	
	Employed in Mine. No persons over 16	<u> </u>
	Employed in Mine. Kind of Power Employed in Bringing Out or Hoisting Coal.	Man Horse Horse Horse Horse Horse Horse Horse Horse Horse Horse Horse Horse Horse
COUNTY-1879.	How Mined — by Drift, Slope or Shaft	Slope Shaft. Slope Shaft. Slope Shaft. Shaft. Shaft. Shaft. Shaft. Shaft. Shaft.
_Y]	Depth of Coal below Surface in feet Thickness of Vein	
UND	No. of Vein	<u></u>
	No. of Acres Worked Out	$\frac{98}{188}$ $\frac{988}{188}$ $\frac{988}{188}$ $\frac{988}{188}$ $\frac{988}{188}$ $\frac{988}{188}$ $\frac{988}{188}$ $\frac{988}{188}$ $\frac{988}{188}$
EN	No. Acres Workable Coal Land	EL 0044 93 0409 9 040901999 0000 900
WARREN	Post Office Address.	Elleson Monmouth Kirkwood Kirkwood Monmouth Alexis Moseville Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Palexis Roseville Monmouth Prairie City Monmouth Prairie City Monmouth Prairie City Monmouth Prairie City Monmouth Prairie City Monmouth Youngstown Youngstown Monmouth Monmouth Monmouth Avon, Fullon Co
	Name of Owner or Operator of Mine.	Anderson, Oscar. Beston, Thomas Bell, John Briner, George Brooks, James. Chicken, William Graham, J. H. Hendricks, Caidwell Hindman, W. B. Hubbard, Thomas Br. Lee, Thomas Br. Lee, Thomas Br. Lee, Thomas Br. Momouth Mining and Manufacturing Co. Miller, W. L. Momouth, Mining and Mactinist. J. B. Miller, W. L. Morimouth Mining and Manufacturing Co. Miller, W. L. Morimouth, Mining and Manufacturing Co. Miller, W. L. Morimouth, Mining and Manufacturing Co. Miller, W. L. Momouth, Mining and Manufacturing Co. Miller, W. L. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 2. Roemine, A. No. 3.

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Monmouth. Le'se Monmouth. 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10	ly will change the law so that a mine, ir safety catches and cover on their of several accidents, but none fatal. ther good air nor escape,
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2人は人人人人はんだい	Note.—I hope that the next Assembly will change the law so that a mine, per number of escapes, and have their safety catches and cover on heir order to avoid the law. We have had several accidents, but none fatal. * Condemned and closed. † Condemned because their was neither good air nor escape.

	Condition of Mine as to Ventilation	o g:		Pirst rate		00000 100000 1 Good	
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	ne of C	Hanke		ville l		& Co.	-
	Name of Owner or Operator of Mine.	Joseph Hanke		Bowlesville Mining Company		Frorer & Co.	

LAWS GOVERNING CHILD-LABOR IN OTHER STATES AND COUNTRIES.

DIGEST OF AMERICAN AND EUROPEAN LAWS RELATIVE TO THE EMPLOYMENT
AND EDUCATION OF YOUNG PERSONS AND CHILDREN.

MASSACHUSETTS.

No child under the age of ten years shall be employed in any manufacturing or mechanical establishment within this State, and no shild between the ages of ten and fifteen years shall be so employed unless he or she has attended some public or private school, under teachers approved by the board of school directors of the place in which such school is kept, at least three months during the year next preceding such employment: Provided, said child shall have lived within the State during the preceding six months; nor shall such employment continue unless such child shall attend such school at least three months in each and every year until it shall have attained the age of fifteen years: And, provided, that tuition of three hours per day in a public or private day school, approved by board of directors of the place in which such school is kept, during a term of six months, shall be deemed to be the equivalent of three months' attendance at a school kept in accordance with the customary hours of tuition; and no time less than sixty-six days of actual schooling shall be accounted as three months, and no time less than one hundred and thirty-two half days of actual schooling shall be deemed an equivalent of six months.

No child under the age of fifteen years shall be employed in any manufacturing establishment more than sixty hours in any one week.

Any owner, agent, superintendent, or overseer of any manufacturing or mechanical establishment who shall knowingly employ, or permit to be employed, any child in violation of this law, and any parent or guardian who allows or consents to such employment, shall, for such offence, forfeit the sum of fifty dollars.

[Chap. 52, acts of 1876.]

"An act relating to the Employment of Children, and regulations respecting them.

- "Section 1. No child under the age of ten years shall be employed in any manufacturing, mechanical or mercantile establishment in this State, and any parent or guardian who permits such employment shall, for such offence, forfeit a sum of not less than twenty nor more than fifty dollars, for the use of the public schools of the city or town.
- "Sec. 2. No child under the age of fourteen years shall be so employed unless during the year next preceding such employment he has attended some public or private day school, under teachers approved by the school committee of the place where such school is kept, at least twenty weeks, which time may be divided into two terms, each of ten consecutive weeks, so far as the arrangements of school terms will allow; nor shall such employment continue, unless such child shall attend school as herein provided, in each and every year; and no child shall be so employed who does not present a certificate, made by or under the direction of said school committee, of his compliance with the requirements of this act: Provided, however, that a regular attendance during the continuance of such employment in any school known as a half-time day school, or an attendance in any public or private day school, twenty weeks, as above stated, may be accepted by said school committee as a substitute for the attendance herein required.
- "Sec. 3. Every owner, superintendent or overseer in any establishment above named, who employs, or permits to be employed, any child in violation of the second section of this act, and every parent or guardian who permits such employment, shall, for such offence, forfeit a sum not less than twenty nor more than fifty dollars, for the use of the public schools of such city or town."

MAINE.

No child can be employed or suffered to work in a cotton or woolen manufactory without having attended a public school or a private one taught by a person qualified to be a public teacher, if under the age of twelve years, four months; if over twelve and under fifteen years of age, three months of the twelve next preceding such employment each year. A certificate under oath of such teacher, filed with the clerk or agent before employment, is to constitute the proof of such schooling.

Any owner, agent or superintendent of such manufactory, for each violation of the provisions of the law, forfeits fifty dollars, to be recovered by indictment, one-half to the prosecutor, and the other to the town where the offence was committed, to be added to the school money. Superintending school committees may inquire into such violations, and report them to a county attorney, who, on reception thereof, is to prosecute therefore.

No person under the age of sixteen years is to be employed by any corporation more than ten hours of a day. Any person violating this provision forfeits one hundred dollars, one-half to the town where the offence is committed, and the other to the use of the person employed, to be recovered by indictment.

NEW HAMPSHIRE.

No child under fifteen years of age shall be employed in any manufacturing establishment unless he shall have received twelve weeks' schooling in the same year, and no child under twelve years of age unless he shall have received six months' schooling in same year.

RHODE ISLAND.

No minor under the age of twelve years shall be employed in or about any manufacturing establishment, in any manufacturing pro-

cess, or in any labor incident to a manufacturing process.

No minor under the age of fifteen years shall be employed in any manufacturing establishment in this State unless such minor shall have attended school for a term of at least three months in the year next preceding the time when such minor shall be so employed; and no such minor shall be so employed for more than nine months in any calendar year.

No minor who has attained the age of twelve years, and is under the age of fifteen years, shall be employed in any manufacturing establishment more than eleven hours in any day, nor before five o'clock in the morning, nor after half-past seven o'clock in the

evening.

Every owner, employer, or agent of a manufacturing establishment who shall knowingly and wilfully employ any minor, and every parent or guardian who shall permit or consent to the employment of his or her minor child or ward, contrary to the provisions of this law, shall be liable to a penalty of twenty dollars for each offence, to be recovered by complaint and warrant, one-half thereof to the use of the complainant, and the other half thereof to the use of the district school of the district in which such manufacturing establishment shall be situated, or, if in the city of Providence, to the use of the public schools of said city.

Labor performed in any manufacturing establishment, and all mechanical labor during the period of ten hours in any one day, shall be considered a legal day's work, unless otherwise agreed by

the parties to the contract for the same.

CONNECTICUT.

No child under the age of fourteen years shall be employed by any person to labor in any business whatever, unless such child shall have attended some public or private day school where instruction was given by a teacher qualified to instruct in orthography, reading, writing, English, grammar, geography, and arithmetic, at least three months of the twelve next preceding any and every year in which such child shall be so employed; and any person who shall employ any child contrary to the provisions of the law shall forfeit for each offence a penalty of one hundred dollars to the treasury of the State.

Every parent, guardian, or other person having control and charge of any child between the ages of eight and fourteen years, who has been temporarily discharged from employment in any business, in order to be afforded an opportunity to receive instruction or schooling, shall send such child to some public or private day school for the period for which such child may have been so discharged, unless the physical or mental condition of the child is such as to render such attendance inexpedient and impracticable. It is made the duty of the State attorneys in their respective counties, and the grand jurors in their respective towns, to inquire after and make presentment of all the offences against the provisions of the law.

It is also made the duty of the "school visitors" in every town

It is also made the duty of the "school visitors" in every town once or more in every year to examine into the situation of the children employed in all manufacturing establishments in such town, and ascertain whether the provisions of the law are duly observed, and report all violations thereof to one of the grand jurors of the

towns.

PENNSYLVANIA.

Labor performed during a period of ten hours on any secular day in all cotton, woolen, silk, paper, bagging and flax factories, shall be considered a legal day's work, and no minor shall be employed in or about any of said factories until he or she shall have attained the age of thirteen years. If any owner or employer of or in any such factories, or his or their agent, shall wilfully or knowingly employ any minor below the age of thirteen years, the person or persons so offending shall pay a penalty of fifty dollars for every such offence, to be sued for and recovered by any person suing for the same, as other debts of like amount are now by law recoverable; one-half of the same to belong to the person suing for the same, and the other half to the county in which the offence was committed. No minor who has attained the age of thirteen years, and is under the age of sixteen years, shall be employed in any such factories for a longer period than nine calendar months in any one year, and who shall not have attended school for at least three consecutive months within the same year; and any owner or employer of or in any such factories offending against the provisions of the law, shall be liable to the same penalty provided in the law relative to minors under thirteen years of age. No male or female operative under the age of twenty-one years, shall under any contract be employed in cotton, woolen, silk, flax, bagging or paper manufactories in the Commonwealth for a longer period than sixty hours in any one week, or more than an average of ten hours a day during the same period. If any person shall knowingly employ, or any parent or guardian consent to the employment of any male or female operative under the age of twenty-one years, and proof be made thereof before any alderman or justice of the peace in the ward, borough or district where such offence is committed, he, she or they so employing such operatives, or consenting thereto, as aforesaid, shall, for every such offence, forfeit and pay the penalty of not less than ten, nor more than fifty dollars, and full provision is made for the recovery of the penalty. All the ward, borough and township constables are authorized and required, and it is made their duty, to attend to the strict observance of the law, when complaint shall have been properly made to them of the violation of the same.

ENGLAND.

POWER OF INSPECTORS.

Every inspector and sub-inspector has power to enter any factory when any person is employed therein, and any school in which children in factories are educated, and to take with him the certifying surgeon and any peace officer, and to examine every person whom he shall find in such factory or school, or whom he shall believe to have been employed in a factory within two months next preceding; and every person who shall refuse to be examined, or who shall refuse to sign his name or affix his mark to a declaration of the fruth of the matters respecting which he shall have been examined, or who shall conceal or prevent any person from appearing before or being examined by an inspector or sub-inspector, or who shall prevent or delay the administration of an inspector to any part of a factory or school, is liable to a penalty of not less than three and not more than ten pounds. Every inspector and sub-inspector may summon offenders and witnesses.

Every inspector and sub-inspector will produce a certificate of his

appointment, if required.

REGISTRATION.

No person under eighteen years of age can be employed in any factory until his or her name has been registered.

SURGICAL CERTIFICATES.

No person under sixteen years of age can be employed without a surgical certificate. The inspectors are empowered to appoint certifying surgeons. A surgical certificate for each person under sixteen must be obtained before employing the person for whom it is required, except that, when all surgical certificates for the factory are granted by the appointed certifying surgeon, persons may be employed without a surgical certificate for seven working days, or, when the certifying surgeon resides more than three miles from the factory, for thirteen working days. No surgical certificate can be granted except on personal inspection of the person named therein, and no certifying surgeon can issue a surgical certificate elsewhere than at the

factory where such person is to be employed, unless for special cause allowed by an inspector. Certifying surgeons refusing to grant a certificate must, when required, certify the reasons for such refusal.

Every inspector and sub-inspector may annul any surgical certificate if he shall have reason to believe the real age of the person mentioned therein to be less than that mentioned in the certificate, or if the certifying surgeon of the district shall deem such person to be then of deficient health or strength, or by disease or bodily infirmity incapacitated for labor, or liable to be injured by continued employment.

The inspector or sub-inspector must give to any person demanding it a requisition entitling him, on payment of one shilling, to a certified copy of the register of the birth or baptism of the party whose surgical certificate has been refused or annulled, except when a surgical certificate has been refused or annulled in consequence of deficient health or strength, or of disease or bodily infirmity.

No person under sixteen can be employed on proof of real age

only.

The occupier is to pay the certifying surgeon, but cannot deduct more than three pence from the wages of the person for whom any

surgical certificate may have been granted.

In blast furnaces and iron mills the Secretary of State may, by order, dispense with the provisions of the factory acts relating to surgical certificates given by certifying surgeons, and substitute other regulations.

EMPLOYMENT OF CHILDREN UNDER THIRTEEN YEARS OF AGE.

No child shall be employed on any Sunday, subject to modifications as regards blast furnaces.

No child under eight years of age can be employed.

No child under the age of eleven years shall be employed in grind-

ing in the metal trades.

No boy under twelve years of age, and no female, shall be employed in any part of a glass factory in which the process of melting or annealing glass is carried on.

No child can be employed before six in the morning or after six

at night.

No child can be employed on any Saturday, after two in the after-

noon, for any purpose whatever.

No child can be employed more than six hours and thirty minutes in any day; and no child employed before noon shall be employed in the same or any other factory after one in the afternoon of the same day, except where young persons and women work only ten hours, and notice thereof has been given to the inspector of the district.

Children may be employed ten hours in any one day, on three alternate days of every week: *Provided*, such children be not employed in the same, or any other factory, on two successive days, nor after two on any Saturday: *And provided*, such children attend school as

required when so employed.

SCHOOL ATTENDANCE.

The parent, or person having any direct benefit from the wages of any child under thirteen employed in a factory, must cause such child to attend school. Every child must attend school for three hours, between eight in the morning and six in the evening, on every working day except Saturday; but any child attending school after one o'clock, between the first of November and the last day of February, is not required to remain in school more than two hours and a half. The non-attendance of every child is excused when he shall be certified by the schoolmaster to have been prevented from attending by sickness or other unavoidable cause, and during any holiday or half-holiday authorized by law, or by consent, in writing, of the inspector, or where the school-room is situated within the outer boundary of the factory at which such child is employed, when such school shall be closed in consequence of the factory ceasing to be at work during the whole day.

When children are employed for ten hours on three alternate days, they must attend school for five hours, between eight in the morning and six in the evening, on each week day preceding each

day's employment, except on Saturday.

SCHOOL CERTIFICATES.

The occupier of every factory in which a child is employed must, on Monday, or other day appointed by an inspector, obtain a certificate, in the form required, that such child has attended school during the foregone week, and must produce such certificate when required; and must pay for the education of each child any sum the inspector may require—not exceeding twopence per week. The occupier may deduct from the wages payable to such child, any sum he shall have been required to pay, not exceeding 'one-twelfth part

of such weekly wages.

An inspector may annul a schoolmaster's certificate if he is of opinion that such schoolmaster is unfit to instruct children, by reason of his incapacity to teach them to read and write from his gross ignorance, or from his not having the books and materials necessary to teach them reading and writing, or because of his immoral conduct, or of his continued neglect to fill up and sign the certificates of school attendance. No certificate granted afterwards by such schoolmaster will be valid, unless with the consent, in writing, of the inspector. The schoolmaster or occupier of a factory may appeal to the Secretary of State against such decision of the inspector.

EMPLOYMENT OF YOUNG PERSONS AND WOMEN.

No young person and no woman can be employed on Sunday,

subject to modification as regards blast-furnaces.

No female shall be employed in any part of a factory in which the process of melting or annealing glass is carried on, or in grinding in the metal trades.

No young person and no woman can be employed in any factory before six o'clock in the morning, except as hereinafter stated.

No young person and no woman can be employed on any Saturday after two o'clock in the afternoon. But this enactment shall not apply to male young persons employed on day and night turns. changing every alternate week, or to women or female young persons whose hours of work have not exceeded eight hours in any day in any week. Between the 30th of September and the 1st of April following, children, young persons and women may be employed, except on Saturday, between seven o'clock in the morning and seven o'clock in the evening, under the following regulations and conditions: A notice of the intention so to employ children, young persons and women, specifying the period-not being less than one month—during which they are to be so employed, shall be given to an inspector, and a notice in such form as shall be approved by the inspector, and signed by the occupier or his agent, and by the inspector, shall be fixed up in the entrance of the factory; and during the period specified in such notice, no child, young person, and no woman can be employed before seven in the morning of any day except Saturday.

MEAL TIMES.

At least one hour and a half must be allowed for meals to every young person and woman between half-past seven o'clock in the morning and six in the evening. One hour at one time, or at different times, must be given before three o'clock. No child, young person or woman can be employed more than five hours before one o'clock without an interval of thirty minutes. During the meal times stated in the notice, no child, young person or woman can be employed in any factory, or be allowed to remain in any room where any manufacturing process is then carried on. All young persons and women must have the times for their meals at the same periods of the day.

In the manufacture of glass, no child, young person or woman shall be allowed to take his or her meals in any part of the factory where the materials are mixed, or in the manufacture of flint glass where the work of grinding, cutting or polishing is carried on.

HOLIDAYS.

No child, young person or woman can work in England or Ireland on Christmas day or Good Friday, or in Scotland on any day wholly set apart for the observance of the sacramental fast. Children, young persons and women must have eight half-holidays besides in every year, together or separately, each of which must comprise not less than half the day. Four of such half-holidays must be given between the 15th of March and the 1st of October. No cessation from work is to be deemed a half-holiday, unless notice thereof shall have been fixed up on the previous day in the entrance of the factory. During such half-holiday no child, young person or woman can be employed in the factory. But this enactment shall not apply to male young persons employed in day and night turns, changing every alternate week.

PENALTIES.

Any person convicted of having employed any person contrary to the provision of the Factory Acts, or having employed a child without a certificate from a schoolmaster, where required, such person, not being the parent or having any direct benefit from the wages of such child, is liable to a penalty of from two to five pounds.

The parent or person having the direct benefit from the wages of

The parent or person having the direct benefit from the wages of any child or young person employed in any manner forbidden by the Factory Acts, or who neglects to cause such child to attend school, is liable to a penalty of from five to twenty shillings for

each offence.

MODIFICATIONS.

The Secretary of State, upon proof, to his satisfaction, that the customs or exigencies of any trade require the modification of some of the ordinary regulations, may issue an order declaring certain regulations, which have been provided by law, to be legal in any particular factory or class of factories. These regulations, or modifications of general enactments, apply to cases where the nature of the work is an exception to the rule; to meal-times, and to the law prohibiting the eating of meals in the factory; to holidays, etc.; but do not affect the principle underlying the rules laid down by statute.

PRUSSIA.

The Prussian laws do not allow children under twelve years of age to work in factories; then six hours a day until they have completed their fourteenth year, and ten hours a day after that until they have completed their sixteenth year.

FRANCE.

Children from eight to twelve years of age may be employed eight out of the twenty-four hours. There is no system of supervision. The law only applies to manufactories and establishments in which machinery by mechanical power is used in its workshops, where more than twenty persons are employed.

SWITZERLAND.

Children, as a rule, are obliged to attend school, from the age of six or seven up to fifteen or sixteen; after they have attained a certain age the hours of study are gradually reduced, in order that they may begin to assist their families and earn a livelihood. Minute precautions are nevertheless adopted by the legislatures to insure their not being overworked by the employers, who are bound to afford them every facility to attend school at the regular hours, and likewise to grant them the necessary time to prepare their lessons. The enactments on this head are far more stringent in some

cantons than in others; in several, children cannot be employed in factories until they are thirteen, fifteen, and even sixteen years of age, when the longest term of studies prescribed in any one canton

has been completed.

In the canton of Zurich, the authorities carry their solicitude for these classes even to the extent of compelling employers to allow apprentices and young workmen to attend the industrial schools during working hours, without subjecting them to a corresponding reduction in the amount of their wages, for loss of time.

No means, however expensive, that experience and ingenuity can devise for the intellectual and theoretical development of the peo-

ple, are left untried.

BELGIUM-NORWAY-SWEDEN.

In these countries education is compulsory, under laws of various scope; but there are no special enactments relative to employment and co-education of operative children.

CO-OPERATION IN GREAT BRITAIN.

That a strike, so long as it is unaccompanied by violence o intimidation toward such as do not voluntarily engage in it, is a means workingmen may legitimately use in their efforts to advance their interests, must, of course, be freely admitted. But that it is a most costly and hurtful method of settling trade-disputes is a fact which workingmen themselves have now very generally learned by sad experience. The chairman of the Trades Union Congress of the United Kingdom, held at Liverpool in January, 1875, in his opening address, referred to strikes as a mode of settling differences with employers which ought to be avoided by all practicable means, and resorted to only in the most extreme cases; and the same opinion, after being repeatedly indicated in the speeches of leading delegates, was substantially embodied in a resolution adopted by the assembly itself, in which fully 800,000 of the trades-unionists of the British Isles were represented. As a natural sequence to a resolution of this character was another, recommending the adoption of that system which is designated to reconcile the now conflicting interests of capital and labor by uniting the two in the same hands, namely, the system of cooperation, and expressing a cordial desire to act in harmony with the cooperators of the United Kingdom. Similar sentiments are to be met with in the documents issued by the leading trades-associations, as well as in their most influential newspaper organ; and, in fact, the system of cooperation itself, as a practical reality, is making rapid advancement among the laboring classes.

As long ago as 1832, Mr. Babbage suggested the advantages which workingmen might derive from cooperative stores. The Rockdale Pioneer commenced, in 1843, the enterprise which has since become so celebrated. It originated in the attempt of some flannel-weavers to obtain an advance in wages, failing in which they resolved to try whether they could not make the wages they were receiving procure them a larger share of the necessaries and comforts of life by starting a store on their own account. A company of forty persons engaged, at a rent of £10 per annum, "th' owd weaver's shop" in "Toad Lane," in which they commenced business with a beggarly stock of salt, butter and oatmeal. At the end of fourteen years they were doing a cash business to the amount of £76,000 per annum. To their original stores they have added several other departments of trade, and have now a good library of from 12,000 to 15,000 volumes.

The returns furnished to the registrars of friendly societies of England and Wales, Scotland and Ireland, respectively, as to the industrial and provident coöperative societies in these three divisions of the Kingdom, at the close of 1873, shows the following results:

Item.	England and Wales.	Scotland.	Ireland.	
Number of societies	790	188	6	
Number of members	340, 930	46,371	. 464	
1873	70, 360			
Number of members withdrawn during the year 1873	31,626			
Share-capital, amount of, at end of the year	£3, 334, 104	£235, 858	£1,443	
Loan-capital, amount of, at end of year 1873	431,308	64, 932	90	
Cash paid for goods during 1873. Cash received for goods during 1873	12, 344, 780 13, 651, 127	56, 130 1, 965, 226	14, 576 16, 161	
Average value of stock during 1873 Total expenses during 1873	1, 439, 137 541, 824	188, 265 67, 468	774	
Interest on share, loan and other capital	152, 596	12, 084		
Entire liabilities at end of 1873.	4,081,512	400, 590		
Reserve fund at end of 1873 Entire assets at end of 1873	83, 149 4, 430, 334	19, 573 462, 857		
Value of buildings, fixtures and land	1, 361, 197	97, 869	633	
provident societies	337, 811	32, 591		
under the Companies act	443, 724	5, 315		
Dispusable net profit realized from all sources during 1873.	958, 721	150, 302	863	
Dividend declared due to members during 1873 Dividend allowed to non-members during 1873	861, 964 18, 555	132, 643 3, 147		
Amount allowed for educational purposes	6, 864	243		
1873	0,004	240		

A much more hopeful kind of cooperation, however, has been steadily winning favor in the industrial world in recent years, according to which, workmen are given a certain share of the profits resulting from successful business operations, such awards being generally graded according to the earnings of each man in the course of a quarter, or of a year. By these "industrial partnerships" labor and capital have been brought into happy alliance to some extent, the moral and material benefits being very marked whenever the principle has been fairly and persistently tested. In 18:0 Prof. Fawcett published, in the Westminster Review, an article on "Strikes, their Tendencies and Remedies," which suggested to certain large colliery proprietors in Yorkshire, England, the possibility of improving the relations between themselves and their workmen, which had been previously very unpleasant—"as bad as they could be," said one of the firm—Messrs. Briggs. "All coal-masters is devils," said a miner, in giving vent to the general feelings, "and Briggs is the prince of devils." But in 1865 an experiment was resolved upon which soon wrought wondrous results. The workmen were given an interest in the work done, in the shape of a bonus to each, according to the amount of his earnings at the end of the year, capital receiving ten per cent. of the net profits, the highest amount that the principals had ever been able to secure under the old system. But, at the end of the first year, under the new system, the profits amounted to fourteen per cent., and the next, to sixteen per cent., one miner receiving a bonus of \$55 upon his earnings of \$550. While morally the workmen, before very largely a brutal and an abusive class, were transformed into reasonable and respectful men. which they would previously have spent in liquor, they now spent in the education of their children, and in increasing the comforts of home. "Our village," says Mr. Currer Briggs, as cited by Mr. Thornton, in his work on "Labour," has been transformed from "a hot-bed of strife and ill-feeling between employers and employed, into a model of peace and good-will." Evidence to the same effect is furnished also by the Crossleys, the well-known carpet manufacturers of Halifax, England, who, in 1864, converted their immense concern into a joint-stock association in £10 shares; special facilities being afforded to the workmen to become the shareholders. \$500,000 of the capital stock being held, according to the latest accessible report, by the company's servants, the directors affirming that the scheme "has more than realized their utmost expectation." While W. H. Smith & Son, the eminent news agents and booksellers, have found the principle of industrial partnership equally satisfactory and renumerative. Their book stalls are well known to travelers in England, but the secret of the marked courtesy, and briskness, and attention to business, exhibited by those in charge, is not known by all who have hurriedly thrown down a shilling on such a stall for a little "railway reading." The dullest among us will be able to guess the secret, however, when he is told, that each agent is paid a percentage on all receipts in addition to his regular salary, the commercial value of such impetus being indicated by the increased income of some of these agents, of between 40 and 50 per bent.

Another example of the material and moral advantages derivable by both master and men from such associations of capital and labor. was furnished by M. LeClaire as early as 1842, in Paris, the particulars of which are stated and illustrated at length by Mr. Thornton, pp. 364-367. Mr. Babbage had commended such a combination of industrial forces in 1832, in his valuable little book on the Economy of Machinery and Manufactures." But why multiply confirmations of a truth so obvious? A very limited knowledge of human nature suggests the practicability of such schemes to diminish, at least, the antagonism between labor and capital. Most masters know something of the costly and vexatious trouble to which thes are put, in getting anything like "a fair day's work" out of their men, for what they consider "a fair day's wages." But a very small modicum of moral philosophy would show them a way out of such embarrassments. Give workmen an interest in the products of their skill and industry, and they will do more work, and of better quality, than they ever do under the ordinary instigations of the wage system, capital surrendering no fraction of, but in-

creasing, its previously hard earned rewards.

"It is human nature, I think, that a man should like to feel that he is to be a gainer by an extra industry that he may put forth, and that he should like to have some sense of proprietorship in the shop or mill, or whatever it may be, in which he passes his days. And it is because the system introduced of late years of cooperative industry meets that natural wish, that I look forward to its extension with so much hopefulness."—Earl Derby (then Lord Stanley) in a speech at Liverpool, 1869.

On a similar occasion the Speaker of the House of Commons said, in 18:6: "My opinion is, we shall never have a satisfactory settlement of the question (of wages) until the laborer receives in some shape or other, a share, though it may be a small one, of the profit of the business in which he is engaged."

"Long might cooperation have sought in vain to recommend

"Long might cooperation have sought in vain to recommend itself as a promoter of the interests of labor, if it had not possessed the further recommendation of conducing to those of capital likewise. This has happily enabled it to make friends of the mam-

mon of unrighteousness."

These, at best, however, are only tentative, half-way measures; there is yet "a more excellent way." Coöperation proper is another thing—the word designating, as used by political economists to-day, what Mr. Holyoake calls "a new power of industry," or what I should prefer to call a new form of collective industry, "constituted by the equitable combination of worker, capitalist and consumer; and a new means of commercial morality, by which honesty is rendered productive. It is the concert of many, for compassing advantages impossible to be reached by one, in order that the gain may be fairly shared by all concerned in its attainment." But formal definitions can do little for us, in trying to get at a clear and impressive understanding of this question. Coöperation has defined itself in action, to the confusion of the skeptical, but to the immense satisfaction and and delight of all well-wishers of workingmen. Listen to a marvelous story!

In the year 1844, in a manufacturing town in the north of England, twenty-eight laborers formed a conspiracy to improve their condition, which was just then well-nigh desperate, by a method of which they had heard, probably; which had been tried, indeed, elsewhere, but which they improved upon and made a success, by the incorporation of a new and very fruitful factor, the nature and worth of which will appear later. These "Pioneers," as they called themselves, agreed to combine their surplus means, for the creating of a common fund, wherewith to launch their scheme of distributive coöperation. Such surplus means, or savings, must have been very scanty, since the amount of subscription decided upon was only four cents a week. These trifling contributions slowly accumulated, however, to \$140, on the strength of which the ground floor of an old warehouse was rented, for retail trade, the stock of goods embracing only four articles: flour, oatmeal, sugar and butter. The store was opened on two or three evenings in the week only, for two or three hours; workmen serving as salesmen, after factory toil was done.

Thus timidly was the enterprise entered upon. Business rapidly increased, however; partly from the widespread social sympathy just then unusually strong among the lower classes in and about Rochdale, but mainly because of the substantial results, in the shape of profits, which soon began to appear; converts to the scheme increasing accordingly, and joining the original twenty-eight.

In ten years the membership had grown to nine hundred, the \$140 had become \$35,860, while \$166,820 represented the business done in the last year of the ten, the profits amounting to \$8,815! I cannot trace the progress of the Pioneer Society year by year,

nor even by decades. Suffice it to say, that the figures corresponding to the items just given, stood as follows in 1867: Members, 34,115; capital, \$641,175; business done, \$1,424,550; profits, \$203,095.

This business has not all been done from the old "stand," howeyer, by the light of a "tallow-dip" candle, as at the first. A magnificent structure has succeeded to the old warehouse, while a dozen or more branch stores have been planted, the articles dealt in now comprising all the necessaries and comforts of common life. In the central store is a vast assembly room, a board room fit for the directors of the Bank of England, a reading room well supplied with newspapers, magazines, and reviews, and a library containing many thousands of the best books published; two-and-a-half per cent. of the profits having been set aside from the beginning for such educational purposes. The material benefits of cooperation, in this, its simplest form, are thus seen to have been very marked. Habits of industry and economy have been begotten in many belonging to a class too generally indifferent or reckless. Thousands who never knew what it was to be out of debt, have built themselves houses and otherwise provided against "a rainy day." The cooperative store is said to be the virtual savings bank of the town. But the moral benefits of the movement have been still more estimable. Pride and a generous aspiration have taken the place of dullness and despair in multitudes. Sobriety and cleanliness and self-respect have been effectively fostered, while honesty and fair dealing have been exemplified on a scale seldom known in the world of traffic. Peace and good-will, with an active desire to serve one another, seem to have pervaded the whole fellowship. The marvelous statement was printed by Mr. Holyoake some little while ago, that the arbitrators appointed to settle internal difficulties had never had a case to consider, feeling somewhat discontented that nobody quarreled. So has the germ, planted by those plain, but resolute and high-minded men, prospered. "Such are the sheaves over which those who went forth weeping, bearing precious seed, are now, with good cause, rejoicing."

I have given you a brilliant and somewhat exceptional example of the benefits created and conferred by distributive coöperation. Like results are attainable by others, however, and have been actually attained in crowds of cases. The Rochdale Pioneers have made for many years more than thirty per cent. of profits; but that many other such associations have been doing about as well, or little worse, is clear, from the fact that of the whole number of 577 (in 1868) the average annual rate of profit was reported as 27 per cent.

According to the report of the Registrar-General for 1878, there were then in existence in England, Scotland and Wales, 1,289 cooperative societies, of which 1,173 made returns, giving the following totals: Members, 554,773; sales, \$104,865,795; stocks, \$12,895,355; trade expenses, including interest on loans and capital, \$7,361,355; net profits, \$9,002,340; share capital, \$18,292,350; loans, \$4,288,835.

Such success has resulted chiefly from admitting all purchasers to the right of dividends in proportion to the amount of their

custom, and from the easy terms upon which members are admitted. a payment of twenty-five cents (one shilling) securing such privilege, accruing dividends being retained by the society till the full cost of The subscriber is a share of twenty-five dollars has accumulated. then a full member, receiving a heavier dividend than the mere purchaser receives. The gain made by simply buying articles of assured quality, at the current market rates, has been the one electric influence, however. Coöperation had been tried on the common joint stock principle, and had failed. If custom could have been attracted and retained on a large scale, the business had paid the stockholder well. But the attractions held out proved inadequate. The new factor introduced by the Rochdale men had a magical effect. A customer soon found that the more he paid into a store the more he received out of it, so to speak. Capital no longer devoured all the gain, but was paid a fixed charge-five per cent.—and its claims were then dismissed. When this and all other fixed charges were met, the remaining profit was divisible among those who had created it, and the effect, as I have just said, was magical; but it has continued steady to this hour.

Other causes have contributed to the success, however. Coöperative societies, making all their purchases wholesale, and always paying ready money, are allowed a discount on all they buy. Never selling on credit, they have no bad debts. Never permitting any article to be removed from their shops without being replaced by cash, they are able to turn over their money many times in the course of a twelvemonth, and thus to do with it as much as would be possible with many times the amount under the usual system of slower returns. Possessing in their own share-holders a large body of assured customers, they have no need of any of those heavy expenses, which ordinary tradesmen are obliged to incur in order to make themselves and their pretensions known. Their expenses of management are, in consequence, extraordinary small, sometimes not exceeding one or two per cent. on the busi-This brief and rapid statement will explain rationale of cooperative societies, or reveal the principles which have been found so fruitful in beneficent effect wherever they have been fairly and intelligently applied.

Cooperative stores are said to be "spreading fast over some other parts of Europe." In Germany there are between 400 and 500 of them, with from 50,000 to 60,000 members, doing business annually to the extent of at least twenty millions of dollars. In France there are 500, chiefly in the smaller towns. Almost all prosper and give good dividends.—Proceedings of London Cooperative Con-

gress, 1879.

It was natural that such successful efforts in retail trade should suggest the formation of a society for wholesale purchasing, by which the local retail societies could be supplied with all necessary goods of the most reliable quality, and upon the most advantageous terms. Accordingly, such a society was formed in 1864, with its headquarters in Manchester, England, having 584 societies in membership to-day, its total sales since its inception amounting to upwards of \$100,000,000, from which profits have been realized of

\$1,155,340, according to the latest report. Two other societies having the same aims are also in operation, the "Scottish Coöperative

Wholesale," and the "Metropolitan and Home Counties."

I have confined my remarks thus far to distributive cooperation. In the larger, or more difficult question of productive cooperation, I cannot now enter at length. There are facts to justify the general statement, however, that coöperative principles have been duly tested and approved in various fields of manufacturing industry, so that it is no strange sight in France or in England, to-day, to see large, prosperous concerns, owned and operated exclusively by workingmen, profits being applied, first in payment of fixed charges, the rest going to employés, according to estimates put upon the value of the services rendered in the creation of the profits; "dividends, in some instances, having risen in recent years to fabulous heights.' Yet good friends to cooperation have doubted whether very much can be done on such a line of endeavor. "The direction of large capital," it has been said, "demands freedom from other pursuits, devoted attention, professional training, habits of business; that most complex forms of industry demand for their direction some kind of engineering talent, acquaintance with the markets, long familiarity with an involved mass of details, mechanical, monetary, administrative; that the head of a great production must have scientific knowledge, technical knowledge, practical knowledge, presence of mind, dash, courage, zeal, and the habit of command." But some of these aptitudes are the peculiar possessions of workingmen, of the elite of such class, at least; while all such essentials can be hired, as they are notoriously hired, to-day, by capitalistic combinations. Productive cooperation will always encounter the evils specially incident to democratic government in all its forms; chief among which are, the difficulty of choosing by popular suf-frage, wise and efficient directors, and then of getting the many to submit steadily to the authority which they themselves have installed. But these things are not unsurmountable, democratic government working in these times of unrest and conflict with as little friction as some other notable forms. Such movements are educational, and what has been accomplished in some scores of instances, may possibly be accomplished in more. Take a typical case in point: "The Sun Mill company, at Oldham, has now a share capital of \$250,000, and a loan capital of \$213,250, both owned almost exclusively by working men. It is governed by six directors, all of whom, except the president, are working men, in receipt of weekly wages, as the president himself was for thirty years. The company's yarn is now so well known that it is no longer necessary to send samples of it to Manchester or other markets—buyers relying upon the reputation of the company—and the managers boast that they produce a larger quantity than any other mill in the world, employing only the same number of spindles."

SCHOOL SAVINGS BANKS.

Mr. Owen W. Weaver, an attaché of the Massachusetts Bureau from December, 1873, to May, 1878, now a resident of Paris, and recently interested in the United States Educational Department of the Exposition at Paris, was, on leaving this country, invited to watch the labor movements of France, and especially the features which might be presented at the Exposition for the relief or advancement of the workingman, and he sends the following:

"When I left America you authorized me to make a report upon such features of the Exposition as, in my judgment, would be of value and interest to the wage laborers of the ——. Having wandered day after day for six months through the building upon the Champ de Mars, I have had amply opportunity of seeing everything that the Exposition had to offer, whether it might relate directly or only distantly to the interests of American workingmen.

"I know of scarcely anything in the United States which does not have its counterpart in most of the countries in Europe. There are institutions of benevolence intended to relieve every kind of distress. There are societies of mutual assistance in different trades, societies of cooperation for distribution and manufacture, schools for teaching all sorts of arts, trades and businesses to the young, societies for the protection of children from the cruelties of hard masters. There are savings banks and institutions for prévoyance, or providence, as they are called, of all shades of merit and success, and operating on various bases, as with us, and in no essential respect different from our own. The reports and statistics showing the inauguration and progress of all these institutions were exhibited by the leading nations to a most remarkable extent. It would be a comparatively easy matter, and require but the labor of translating and collating, to send you a voluminous report prepared from this wealth of material; but its value would be questionable. these things exist in the United States, or have been tried and discarded. I should only add a little something to the literature of the subject, which might be of value, perhaps, by and by, to the special historian who should set out to write upon the inception and progress of such things as a feature of modern civilization.

"My desire was to find something, if the Exposition might furnish it, which was practical in its nature, and capable of application in our own country.

"Searching through all this wealth of material, I have found one thing which has been tried in some European countries and found practicable, and which, it seems to me, is capable of being transplanted to American soil. It is the School Savings Bank, or Caisses d'Epargne Scolaires, as they are here termed. It exists in France, in Belgium, and in Italy, and was first established about a dozen years ago; but owing to its peculiar organization, or rather entire lack of organization, the statistics to be procured respecting it are very meagre.

"Its working is simply this: Given a teacher who feels it his duty to cultivate habits of economy in his scholars, he proposes to his pupils that they shall, as many as wish, become savings bank depositors; that every morning, or as often as may be, they shall bring to him the sous or even centimes which they wish to put in the bank. He prepares for himself a register properly arranged, and a small blank-book similarly arranged for each scholar. The children, at the morning roll-call, pay in each his little sum; the teacher enters it in his own and the child's book. On the first day of every month he deposits at the nearest savings bank, in the name of the scholar, what he has collected.

"It is all very simple; and without any newspapers devoted to it, or propagandism of any sort, just on its own intrinsic merit, it has spread, until now these school banks exist in 80 departments in France, and in over 8,000 schools. The amount of savings thus accumulated is not known, but that it is considerable is shown by the fact that the savings banks, which at first objected to receiving their deposits, and discouraged their formation, are now everywhere

anxious for their establishment.

"In the little city of Ghent, in Belgium, in 1873, out of 15,000 children in the schools, over 13,000 are depositors, and the aggre-

gate of deposits was 463,064 francs.

"To obtain any statistics upon these interesting institutions is impossible, as nobody has collected them, and it is only recently that the public seems to have become aware of the magnitude and extent of this new method of economy. If there is any one thing that America has to learn, and that France can teach her, it is economy. I believe that the school savings bank in France is destined, within the next ten years, to become one of the greatest and most powerful means in the elevation and improvement of the condition of the French workingman. It robs nobody; it does not molest capital, but it makes capital.

"If once fairly tried in the United States, I believe its spread would be rapid. Experience here has shown that it imposes no onerous labor, and only very slight financial responsibility upon teachers,—and teachers who at first objected to introducing it are

now emulous in encouraging it.

"It needs only that teachers and school superintendents should take hold of the matter."

LABOR STATISTICS—THEIR VALUE AND THE NECESSITY OF THEIR COLLECTION.

An issue of the New York Weekly Tribune (March 11, 1874,) thus examines into the facts about the working classes:

"A knowledge of the elements of the labor problem is essential to all progress in dealing with it. The proverb that one-half the world does not know how the other half lives, is nowhere so true as in respect to those who do, and those who do not, earn their living by manual toil. More light is thrown upon this subject by the facts gathered in such reports as that of the Massachusetts Labor Bureau, which we present elsewhere, than all the fine-spun theories of doctrinaires or the rant of labor demagogues would fur-

nish in a century.

"Previous to the organization of that Bureau, it was generally believed that Massachusetts was a model commonwealth, far superior to the rest of the world in respect to the education of her masses. The training of her common schools was her glory and her pride; and however necessary compulsory education might be under effete governments, here, at least, was a State where the children of the poorest citizen were proficient in the three r's. Unhappily the statistics of the Labor Bureau tell a very different The children of working people in Massachusetts are, in great part, as sadly neglected in respect to education, as if they were born in the middle of Africa. There are 25,000 of them, between the ages of 5 and 15, thrust into the workshop instead of the school-room. The report says that they do not receive the slightest education, either in public or private schools. What sort of citizens will they make when, under our equal laws, the ballot is placed in their hands? Of what avail will books or newspapers, or any other means of enlightenment, be to this army of heathens who cannot

"How do they live, these working people,—these people whom we only hear of when they rise in a strike; or begging for work, come to the soup-kitchens? The report photographs their life with painful fidelity. While they have work, their hours are long, especially those of women and young girls. They occupy vile tenements as homes, where they are packed closely, without regard to decency or health; where sight and smell are offended at every step, and vice and drunkenness offer the only variety of their monotonous lives. Doubtless this is not true of all; but of how terribly large a pro-

portion it is true we are told in the report. They save something against a rainy day? Yes, more than was at one time supposed; and of the depositors dependent upon day wages, the savings banks hold an average to each name of \$121. But a large proportion save nothing; and there is a strange feature in this matter of saving-those save most who earn least; the workmen who can earn large wages are very rarely frugal.

"There are excellent recommendations at the close of the report, to which the only objection is, that they are too general in their character. The best of laws, the wisest management on the part of the State, cannot wholly meet the exigency. Philanthropy and capital must go hand in hand, and, having sought out these evils and ascertained their origin, must find the true solution of the labor problem in the elevation of the workingman."

The Springfield Republican, April 26, 1872, contains the following

concerning "The Massachusetts Labor Bureau's Report:

Each successive year increases, perhaps we may say doubles, the value of the annual reports sent out from the Massachusetts Bureau of Labor Statistics. General Oliver, the chief, and Mr. McNeil, the deputy of the Bureau, who unite in writing the reports, come every year somewhat nearer to comprehensive acquaintance with the myriad facts that make up the industrial problem of Massachusetts; moreover, they acquire a better method of setting them forth.

"But it will be some years before the statistics thus presented will have the weight that belongs to carefully collected and accurately analyzed results; for it is not yet possible, in any branch of the inquiry, to allow for all the facts that ought to be known

and considered.

The American Artisan, of May 29, 1872, says:

"The institution and maintenance by the State of such a Bureau, cannot be too highly commended, and the gentlemen whose indefatigable and judicious labors have produced the work before us, are entitled, not only to the thanks of the Commonwealth of Massachusetts, but of the country at large."

The Boston Commonwealth spoke thus strongly of attempts to

abolish the Massachusetts Bureau in 1872:

"So the effort now is to abolish the Bureau of Labor. The struggle between capital and labor is growing bitter, bitter, now, even on the side of capital. It objects to investigation of its

"Let us find, rather, the true 'State pride,' that shall dare seek out its own evils for correction. There is no shame in any quotation of our difficulties made from our own investigation and confession in

reports.

"Abolish the Bureau in a scare, lest we find something wrong, and in time somebody else will be trumpeting our difficulties and also our degradation. Then, indeed, may we blush and dread exposure. Only in the continuance of the Labor Bureau is there honor and integrity. Its abolition would be simply cowardice.'

The Chicago Tribune, of March 19, 1875, says, editorially:
"The Massachusetts Bureau of Labor Statistics has issued its
sixth annual report. We regret to learn, from the abstract that has reached us, that there is danger of the abolition of the Bureau.

Its reports have been of the greatest value to the students of social science. They are quoted from Maine to Oregon, and are in demand throughout Europe. There is no other organization in the country which does a like work, for the Pennsylvania Bureau of Labor has as yet shown no reason for its existence. The six Massachusetts reports contain a mass of information which is obtainable nowhere else, and the subject is far from being exhausted. It is to be hoped that the good work may go on. These statistics show a better state of things, on the whole, than was expected. The decrease in wages. due to the panic, has deprived the Massachusetts workingman of his luxuries. Otherwise he seems to be getting along well enough, so far as the present is concerned. He has slight chances for the future, however. 'In only a few cases,' says the report, 'is there evidence of the possibility of acquiring a competence.' As long as this is true, so long is labor wronged,—but it is usually wronged by The husband and father 'has given hostages to fortune. When labor is too plenty, labor is too cheap, and a life of toil often ends in a pauper's grave. The Bureau hopes great things from cooperation in the way of bettering the condition of the working classes, and in this it is right. In England and Germany there are millions of workingmen living in comfort, who, without cooperation, would be in squalid misery.

RAILWAY EMPLOYES.

The railway system of Illinois has grown up wholly in the past thirty years, and its employes and their families represent about one-fourteenth of the population of the State. From the best data to be obtained, the number of employes on the roads of the different companies making returns to the Railroad and Warehouse Commission for the year 1880, was 94,561. Of these, 405 are general officers, 162 assistants, 51 civil engineers, 104 master mechanics, 139 roadmasters, 4,437 clerks, 7,688 machinists, 3,259 conductors, 3,812 engineers, 4,940 firemen and wipers, 1,600 baggagemen, 4,892 brakemen, 29,169 sectionmen and foremen, and 34,448 laborers. The aggregate amount of wages paid is reported at \$19,427,729. The returns do not show accurately the number of employes in Illinois, but the best estimates place it at 40,650, while the total amount of wages paid to these employes is placed at \$21,250,000.

The following tables, showing the number of employes in the different branches of the service for the past five years, are compiled from the report of the Railroad and Warehouse Commission. Previous to 1876, the subject was not treated of in their reports, but since that time they have collated this portion of their returns

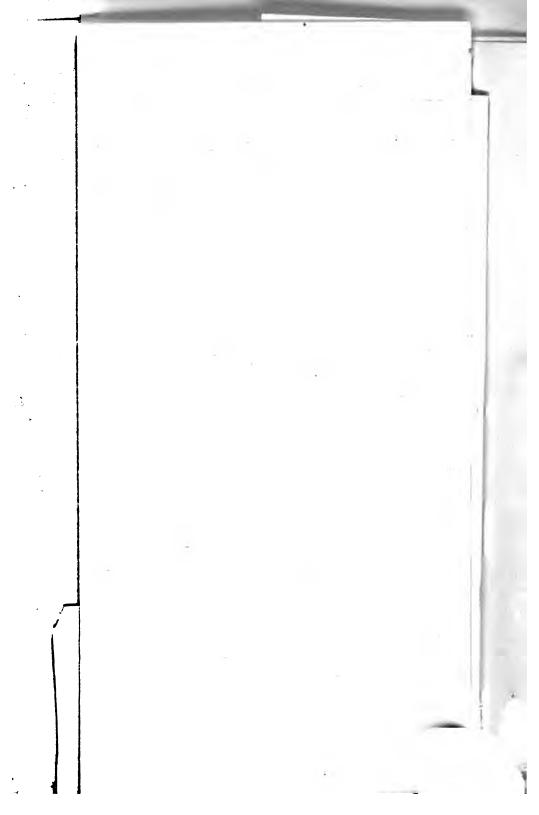
to good advantage.

Beyond scattering returns to this Bureau by employes, from which but little information of a general character could be gathered, there has been comparatively little complaint as to the administration of the railway service of the State. Although the most perilous of employments, its followers take to it kindly and fearlessly, and do the work allotted to them with an earnest fidelity which commands

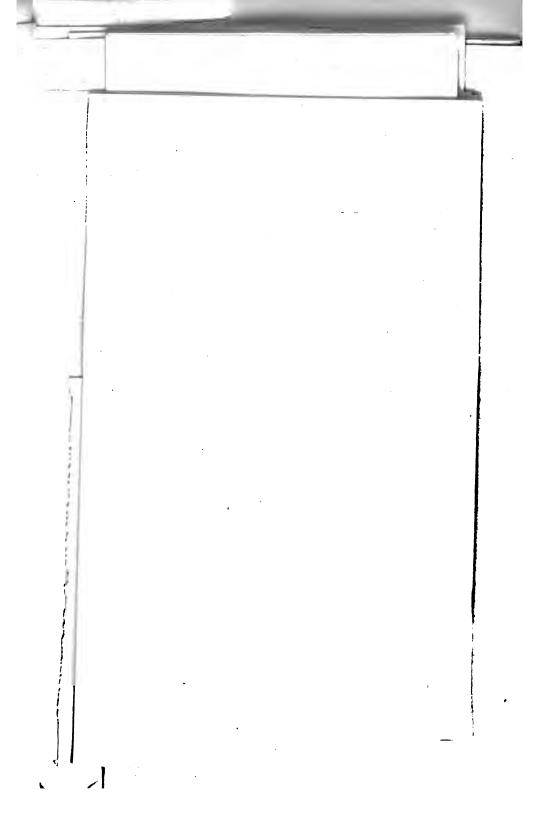
the respect of the public and their employers.

The lowest wages paid by the railroads of the State from the opening of the system to date is embraced in the period from 1875 to 1878. Since then wages have, as a whole, risen in price by about 15 per cent. The proportion of risk to the lives of operatives on passenger trains has proportionately decreased, but the crews of freight trains suffer as much as ever they have since the era of railroading began, both from a failure on the part of the companies to devise apparatus for the protection of life on trains of this class, as well as from the fact that, in busy seasons, the crews of freight trains are very much overworked, and instances have come under our notice where crews have been kept on the road for seventy-two hours at a stretch without any sleep further than that which could be caught at odd moments. A good proportion of accidents can be traced to this cause alone. The work of a large portion has to be done at the most unnatural and inconvenient times-at night and on Sunday-yet the great majority of the railway employes of the State are loval to their companies' interests, and faithfully perform their duties, often with death staring them in the face.

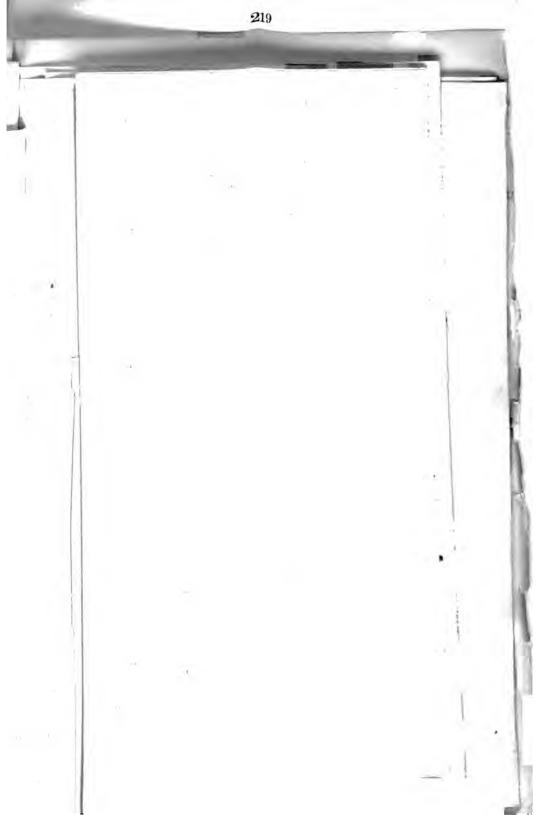
The following table gives a complete return of the number of men employed by the Illinois Central railroad for the year ending June, 1880. It was furnished this Bureau through the kindness of President Ackerman, and is the most complete statement of the kind ever prepared. Its figures are authoritative, and can be relied upon:



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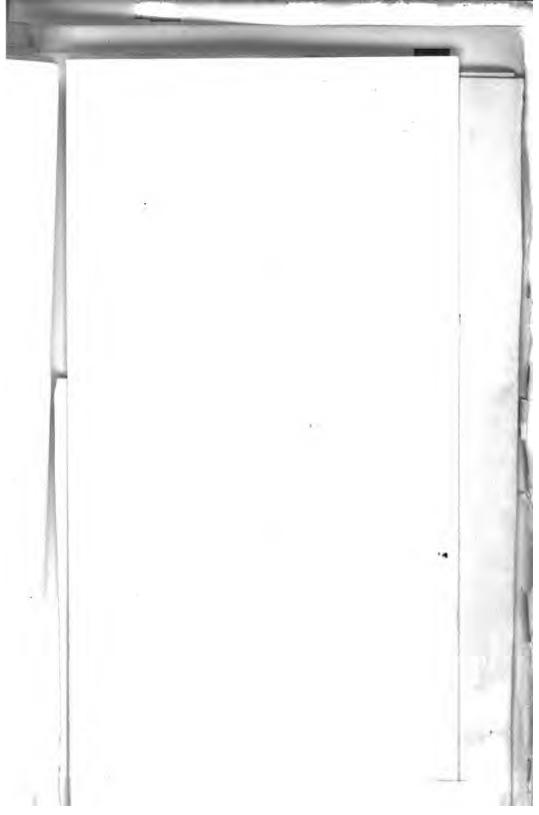


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THE COAL-MINING INDUSTRY.

OUR COAL PRODUCT.

The coal product of Illinois has made rapid progress during the past two decades. According to the returns of the United States Census Bureau, there was mined in 1860, in this State, 728,400 tons. In 1870 the product was 2,624,163 tons, while the same authority estimates the product of 1880 at about 6,000,000 tons. The following table shows the production of the different counties in the State in which coal is mined for 1870, according to the census return for that year. The column for 1880 is compiled from the reports of the Mine Inspectors to the Governor. These latter returns are not, in many instances, reliable, for the reason that the inspectors are disabled, by the operations of the mining law, from collecting full and detailed statistics. In the leading counties, however, the figures given are correct, and show the growth of production commensurate with the development of dependent industries:

COAL PRODUCT OF ILLINOIS IN TONS.

		<u> </u>
Counties.	1870.	1880.
Bureau	32, 339	76,600
Christian.	60	
ClintonFulton	9,000	40,000
Fulton	22,850	1
Gallatin	11,600	
Grundy.	51,375	56, 574
Henry	62, 750	36,300
Jackson	166, 800	58, 617
Jersev	2,623	
Knox	97, 225	
Lagallo	173, 864	624,900
Livingston. Logan McDonough.	49, 360	1
Logan	17,000	58,745
McDonough.	60, 750	1
McLean	55,000	
Macoupin.	7,000	188, 787
Madison.	116, 924	239, 725
Marshall	17, 330	
Menard.	17, 360	48, 462
	14,040	37, 474
Montgomery	18,000	0,,,,,
Peoria	6,000	198, 487
Montgomery. Peoria. Perry. Bandolph. Bandolph.	195, 400	100,100
Randolph	11,000	60,380
	127, 630	216, 604
	84,500	346, 793
	8,100	030,750
	2,950	
Shelby.	5,700	
	5, 700	1

Coal Product—Continued.

Counties.		1870.	1880.
Stark St. Clair		14, 554 798, 810 5, 300 116, 640	
Tazewell Vermilion.			463, 946 237, 995
Warren. Will		11,729 228,000	18,742
Williamson Woodford		1,600 4,000	68, 645 60, 000
Total	-	2, 624, 163	2,937,776

Note.—Seventeen counties make no report for 1879 or 1880.

THE MINE INSPECTION LAW.

The General Assembly has, from time to time, enacted such legislation as has been deemed necessary for the protection of the lives and health of persons employed in coal mines, until there stands at present on our statute books the following lengthy act, defining the conditions under which persons may be employed, and providing for the inspection of the mines in the different counties in the State, under the direction of the boards of supervisors:

An Act providing for the health and safety of persons employed in coal mines.

SECTION 1. Be it enacted by the people of the State of Illinois, represented in the General Assembly. That the owner or agent of each and every coal mine or colliery in this State, employing ten or more men, shall make or cause to be made, at the discretion of the inspector or person acting in that capacity, an accurate map or plan of the workings of such coal mine or colliery, and of each and every vein thereof, showing the general inclination of the strata, together with any material deflections in the said workings, and the boundary lines of said coal mine or colliery, and deposit a true copy of said map or plan with the inspector of coal mines, to be filed in his office, and another true copy of said map or plan with the recorder of the county in which said coal mine or colliery is situated, to be filed in his office, both of which said copies shall be deposited as aforesaid within three months from the day when this act shall go into effect; and the original, or a copy of such map or plan, shall also be kept for inspection at the office of such coal mine or colliery; and during the month of January of each and every year, after this act shall go into effect, the said owner or agent shall furnish the inspector and recorder, as aforesaid, with a statement and a further map or plan of the progress of the workings of such coal mine or colliery continued from the last report to the end of the December month just preceding; and the inspector shall correct his map or plan of said workings in accordance with the statement and amap or plan thus furnished; and when any coal mine or colliery is worked out or abandoned, that fact shall be reported to the inspector, and the map or plan of such coal mine or colliery in the office of said inspector shall be carefully corrected and verified.

- § 2. Whenever the owner or agent of any coal mine or colliery shall neglect or refuse to furnish the said inspector and recorder, as aforesaid, with the statement, the map or plan, or addition thereto, as provided in the first section of this act, at the times and in the manner therein provided, the said inspector is hereby authorized to cause an accurate map or plan of the workings of such coal mine or colliery to be made at the expense of the said owner or agent, and the coat thereof may be recovered by law, from said owner or agent, in the same manner as other debts, by suit in the name of the inspector and for his
- § 3. In all coal mines or collieries that are or have been in operation prior to the first day of July, in the year of our Lord 1877, and which are worked by or through a shaft, slope or drift, and in which more than ten miners are employed in each twenty-four hours, if there is not already an escapement shaft to each and every said coal mine or colliery, and a communication between each and every coal mine or colliery and some other contiguous mine, then there shall be an escapement shaft or other communication, such as shall be approved by the mine inspector, making at least two distinct means of ingress and egress for all persons employed or permitted to work in such coal mine or colliery. Such escapement shaft, or other communication with a contiguous mine as aforesaid, shall be constructed in connection with every vein or stratum of coal worked in such coal mine or colliery; and the time to be allowed for such construction shall be two years, when the depth of such shaft so to be constructed exceeds five hundred feet; when less than five hundred feet, one year from the time this act goes into effect: Provided, this section shall not be so construed as to extend the time now allowed by law providing escapement shafts or other communications. And in all cases where the working face of one mine has been

driven up to or into the workings of another mine, the respective owners of such mine, while operating the same, shall keep open a roadway at least two and one-half feet high and four wide, thereby forming a communication as contemplated in this act; and for a failure to do so shall be a bject to the penalty provided for in section ten of this act, for each and every day such roadway is unnecessarily closed. Each and every such escapement shaft shall be separated from the main shaft by such extent of natural strata as shall secure safety to the men employed in such mines or collieries, such distance to be left to the discretion of the mine insuector or person acting in that capacity. And in all coal mines or collieries that shall go into operation for the first time after the first day of July, A. D. 1877, such escapement, or other communication with a contiguous mine as aforesaid, shall be constructed within one year after such mine shall have been put into operation. And it shall not be lawful for the owner or agent of any such coal mine or colliery, as aforesaid, to employ any person to work therein, or permit any person to go therein, for the purpose of working, unless said owner or agent shall have first complied with the requirements of this section. And the term "owner," used in this act, shall mean the immediate proprietor, lessee or occupant of any coal mine or colliery, or any part thereof; and the term "agent" shall mean any person having, on behalf of the owners aforesaid, the care and management of any coal mine or colliery, or any part thereof.

§ 4. The owner or agent of each and every coal mine or colliery shall provide therefor

§ 4. The owner or agent of each and every coal mine or colliery shall provide therefor an adequate amount of ventilation, by forcing, when practicable, the circulation of pure air through to the face of every working place in every such coal mine or colliery, so that every such coal mine or colliery shall be fit for men to work therein, and free from standing gas and from danger to health and life by reason of any noxious gas. The ventilation required by this section may be produced by any suitable appliances, but in case a furnace shall be used for ventilating purposes, it shall be built in such a manner as to prevent the communication of fire to any part of the works, by lining the upcast with incumbustible material for a sufficient distance up from the said furnace.

§ 5. The owner, agent or mining boss shall provide that bore holes shall be kept twenty feet in advance of the face of each and every working place, and, if necessary, on both sides, when driving towards an abandoned mine, or part of a mine, suspected to contain inflammable gases, or to be inundated with water.

- s. 6. The owner or agent of every coal mine or colliery, operated by shaft, shall provide suitable means of signaling between the bottom and the top thereof, and shall also provide safe means of hoisting and lowering persons in a cage, covered with boller iron, equal in length and width to the cage, so as to keep safe, as far as possible, persons ascending out of and descending into such shaft; and such cage shall be furnished with guides to conduct it on slides through such shaft; and, whenever practicable, such cage shall be furnished with springs or catches, intended and provided, as far as possible, to prevent the cable breaking, loosing or disconnecting machinery. And no person under the age of twelve years, or female of any age, shall be permitted to enter any mine to work therein. The neglect or refusal of any party or person to perform the duties provided for and required to be performed by sections four, five and six of this act, by the parties therein required to perform the same, shall be taken and deemed guilty of a misdemeanor, committed by them, or any or either of them, and shall be punished by imprisonment or fined, at the discretion of the court trying the same, subject, however, to the limitations as provided by section ten of this act.

 3. 1. No person shall knowingly be amployed as angineer or to take charge of any more
- § 7. No person shall, knowingly, be employed as engineer or to take charge of any machinery or appliances whereby men are lowered into or hoisted out of any mine, but an experienced, competent and sober person; and no person shall ride upon a loaded wagon or cage used for hoisting purposes in any shaft or slope; nor shall any coal be hoisted out of any coal mine or colliery while persons are ascending out of or descending into any such coal mine or colliery; and not more than four persons shall at one time ascend or descend into any coal mine or colliery on one cage; nor shall they be lowered more rapidly than three hundred feet per minute, nor hoisted more rapidly than two hundred feet per minute. Any person violating the provisions of this section shall be held and deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by fine or imprisonment, at the discretion of the ccurt trying the same.
- \$8. All boilers used in generating steam in and about coal mines and collieries, shall be kept in good order, and the owner or agent, as aforesaid, shall have said boilers examined and inspected by a competent boiler maker, or other well qualified person, as often as once every six months, and oftener if needed, and the result of every such examination shall be certified in writing to the mining inspector; and the top of each shaft shall be securely fenced by verticle or flat gates, properly covering and protecting the area of such shaft; and the entrance of every abandoned slope and air or other shaft, shall be securely fenced off; and every steam boiler shall be provided with a proper steam guage, water guage and safety-valve; and all underground selfacting or engine planes or gangways on which coal cars are drawn and persons travel, shall be provided with some proper means of signaling between the stopping places and the ends of said planes or gangways; and sufficient places of refuge at the sides of such planes or gangways shall be provided at intervals of not more than twenty feet apart.
- \$ 9. Whenever loss of life or serious personal injury shall occur by reason of any explosion, or of any accident whatsoever, in or about any coal mine or colliery, it shall be the duty of the person having charge of such coal mine or colliery to report the facts thereof without delay to the mine inspector of the county in which said coal mine or colliery is situated; and if any person is killed thereby to notify the coroner of the county also, or in his absence or inability to act, any justice of the peace of said county; and the said inspector shall, if he deem in necessary from the facts reported, immediately go to the scene of said accident and make such suggestions and render such assistance as he may deem necessary for the safety of the men. And the inspector shall investigate and ascertain the cause of such explosion or accident, and make a report thereof, which he shall preserve with the other records of his office; and to enable him to make such investigations he shall have power to compel the attendance of witnesses, and administer oaths or affirma-

tions to them; and the cost of such investigation shall be paid by the county in which such accident has occurred, in the same manner as costs of coroners' inquests are now paid. And the failure of the persons in charge of the coal mine or colliery in which any such accident may have occurred, to give notice to the inspector or coroner, as provided for in this section, shall subject such person to a fine of not less than twenty-five dollars nor more than one hundred dollars, to be recovered in the name of the People of the State of Illinois, before any justice of the peace of such county, and such fine, when collected, shall be paid into the county treasury, for the use of the county in which any such accident may have occurred. The term "serious personal injury." used in this section, shall mean and include every injury received by a person in or around any mine or colliery by which he is disabled from following his usual employment.

- § 10. In all cases in which punishment is provided by fine and imprisonment under this act, for a breach of any of its provisions, the fine shall not be less than ten dollars nor more than one hundred dollars, or the imprisonment not less than ten days nor more than six months, or both, at the discretion of the court; except as specially provided in section nine of this act.
- section nine of this act.

 § 11. The county boards in each county of this State in which mining is now, or may hereafter be carried on, are hereby authorized, and it is made their duty to appoint one inspector of mines at its September meeting, who shall have been a resident of the county for which he is appointed for one year previous to his appointment. He shall be required to furnish satisfactory evidence to said Board that he has had sufficient practical experience in and around mines to enable him to discharge the duties of mine inspector intelligently, and to see that the provisions of this act are faithfully complied with. He shall not be interested as owner or stockholder in any mine or mines during his term of office. His term of office shall be one year, but he may be reappointed as often as the county board thinks proper. The county board of each county shall fix the number of days to be employed by the county inspector in inspecting the different mines of his county, and enter the same upon the records of said board. He shall receive such compensation for his time actually employed in the performance of the duties of his office, to be verified by his affidavit, as shall be fixed by the county board, to be not less than three dollars (\$3.00) nor more than five dollars (\$5.00) per day, to be paid out of the county treasury. But in all cases where, on inspection, he finds the provisions of this act, or any of them, not compiled with in operating any mine. It is made his duty to demand, and if necessary, to compel by law, the collection from the owners or operators of such mine, of all expenses of such inspection, as provided in section two (2) of this act.

 § 12. The inspector provided for under this act shall see that every necessary precau-
- s 12. The inspector provided for under this act shall see that every necessary precaution is taken to insure the health and safety of the workmen therein employed; that the provisions and requirements of this act be faithfully observed and obeyed, and the penalties of the law enforced against all who wilfully disobey its requirements. He shall also collect and tabulate the following facts, that is to say: The number of acres of workable coal lands in his county; the number and thickness of the coal beds and their respective depths below the surface; how they are mined, whether by shaft, slope or drift; the number of mines in operation, the number of men employed therein, and the aggregate yearly production in tons; together with an estimate of the amount of capital employed in coal mining in his county, and any other information relative to coal mining that he may deem necessary; all of which facts, so tabulated, together with a statement of the condition of the mines as to safety and ventilation, and the general result of his examination into the causes of all accidents in and about the coal mines and collieries of his county, he shall fully set forth in an annual report to the Governor, with his recommendations as to such other legislation on this subject as may be proper. He shall also furnish such information as he may have obtained on this subject when called for by the State Geologist. Geologist.
- § 13. It shall be lawful for the inspector provided for in this act to en'er, examine and inspect any and all coal mines or collieries, and the works and machinery belonging thereto, at all reasonable times by day or night, but so as not to hinder or obstruct the necessary working of such coal mines or collieries; and the owner or agent of every such coal mine or colliery is hereby required to furnish all necessary facilities for such entry, examination and inspection; and if the said owner or agent, as aforesaid, shall refuse to permit such inspection, or to furnish the necessary facilities therefor, the inspector may file his affidavit, setting forth such refusal, with the judge of the circuit in which said mine may be situated, either in term time or in vacation, or, in the absence of the judge, with the master in chancery for the county in which said mine may be situated, either in term time or in vacation, or, in the absence of the judge, with the master in chancery for the county in which said mine may be situated, and obtain an order on such owner or agent so refusing as aforesaid, commanding him to permit and furnish such necessary facilities for the inspection of such coal mine or colliery, or be adjudged to stand in contempt of court, and punished accordingly; and if the said inspector shall, after an examination of any coal mine or colliery, and the works and machinery pertaining thereto, find the same worked contrary to the provisions of this act, or unsafe for the workmen therein employed, said inspector may, through the State's attorney of his county, acting in the name and on behalf of the State, proceed against the owner or agent of any such coal mine or colliery, by injunction, without bond, after giving at least two days' notice to such owner or agent. And the said owner or agent shall have the right to appear before the judge or master to whom the application is made, who shall hear the same, and affidavits in support thereof, as well as affidavits in opposition; and if sufficient cause appea
- § 14. For any injury to person or property occasioned by any willful violation of this act, or willful failure to comply with any of its provisions, a right of action shall accrue to the party injured for any direct damages sustained thereby; and in case of loss of life by

reason of such willful violation or willful failure, as aforesaid, a right of action shall accrue to the widow of the person so killed, or his lineal heirs or adopted children, or to any other person or persons who were, before such loss of life, dependent for support on the person or persons so killed, for a like recovery of damages for the injuries sustained by reason of such loss of life or lives.

§ 15. Any miner, workman or other person who shall knowingly injure any watergauge, barometer, air course or brattice, or shall obstruct or throw open any airways, or carry lighted lamps or matches into places that are worked by the light of safety lamps, or shall handle or disturb any part of the machinery of the hoisting engine, or open a door in the mine and not have the same closed again, whereby danger is produced either to the mine or those at work therein; or who shall enter into any part of the mine against caution; or who shall disobey any order given in pursuance of this act; or who shall do any willful act whereby the lives and health of persons working in the mine, or the security of the mine or mines, or the machinery thereof, is endangered, shall be deemed gullty of a misdemeanor, and, upon conviction, shall be punished by fine or imprisonment, at the discretion of the court.

 \S 16. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

Approved March 27, 1872. Approved, as amended, April 24, 1877.

That portion of the law governing the inspection of the mines has failed to be of benefit to the operatives, owing to the appointment of the inspectors and the provision for their payment having been left in the hands of the counties. Under this system, the time allowed to be used by the inspectors in performing the duties reguired of them is cut down to the shortest time which will suffice to go over the mines once a year, and the pay is fixed at but little more than a miner could make while at work in a mine. As a rule, the inspectors appointed are practical miners, and in many localities an impartial performance of their duties and the enforcement of the mining law would debar the inspectors from obtaining work at their trades during the balance of the time they were un-employed in the duties of their office. The greatest amount of time allowed any inspector in the State which has come under our notice was that allowed the inspector of mines in St. Clair county in 1879, which was ninety days. There were then eighty-two mines in operation in that county, and it is easy to see how little could be properly done toward enforcing the law by the inspector in that time. St. Clair county produced in 1870, nearly one-third of the coal mined in the entire State. It had long been the scene of periodical strikes and lockouts, and its coal-pool and black-list are to-day the most formidable of any in the State, and to secure a proper enforcement of the mining law, it will be necessary to place the officer making the inspection independent of any local influences, particularly those which place the officer appointed to do a sworn duty at the mercy of the operators of mines for the greater portion of the year. The only feasible method which occurs to us is to district the mining counties of the State into such number of districts as will require the entire time of the inspectors, place their appointment in the hands of some department of the State best fitted to care for this industry, and pay for the cost of the inspec-tion from a fund to be raised by placing such tax on the product of the mines as will raise the amount necessary. There could be no more objection raised to this method than has been raised against the system of grain inspection in force in the State, and which has been so generally satisfactory. Until some such system is adopted in place of the present "county board" method, no satisfactory results can be obtained.

WHERE THE COMPLAINT COMES FROM.

The complaint in regard to the failure of the inspectors comes from nearly every county in the State. There are two or three notable exceptions, namely: Sangamon, LaSalle, and perhaps one or two others, but even here the performance of their duty by the inspectors is traceable to conditions of independence which nine miners out of every ten are not blessed with. In the first named county, the inspector was a stockholder in a coöperative mining company; and, in the second county, there is a more general system of good management in the working of mines by the operators, which leads them to respect and carry out the provisions of the law. In all the other counties the cry comes from both miners and inspectors alike for a change in the system. In three-fifths of the returns made to this Bureau by operatives in mines, these complaints have been made. The provisions of the law, so far as they relate to the management of mines, are comprehensive enough to meet the wants of any section of the State; all that is needed is an effective method of enforcement.

WAGES AND THE HOMES OF MINERS.

The inquirer into the manner of life and the earnings of the coal mine employes of the State can not but be struck with the comparative poverty of comfort which prevails in all mining centres and mining towns. This condition is traceable to many causes, and the remedy must needs be slow in operation, and will take at least a generation of time and the most progressive and ennobling influences to effect any very marked change. There has been a great deal of bad blood developed in different ways by both operators and their employes, and the present aspect of affairs seems to warrant the opinion that but little can be hoped for in the near future in the way of any peaceable settlement of the wages question in this industry. Whatever truce may exist is but "an armed truce," and is likely to be broken at the first opportunity by either party to the question. Both sides have treasured up real or fancied wrongs, and lose no opportunity to retaliate and wreak vengeance on the other. So true is this, that in one of the largest mining counties in the State it was impossible for miners who had been placed on the "black-list" to go into business for themselves and get an outside market for their product. A company of eight miners who could not get work in the St. Clair district because they were under the suspicion of having been concerned in a strike in the district, leased an idle shaft just outside of the city of Belleville, in the summer of 1880, put it in order, secured business in St. Louis which would give them an output of ten cars of coal per day, and were ready to commence mining coal, when, on the night of a political meeting in that city, at which they were present, their engine house and hoisting works were burned to the ground. There had been no fire about the premises for several days, and the conclusion was reached that the buildings had been set on fire by some one. Nothing daunted, the men borrowed the means necessary to rebuild their engine house and works, and made application to the railway company whose road ran past their shaft, and to which a switch had been built,

for the necessary cars to forward their product to market. The general freight agent of the company informed them that he would not furnish them any cars unless they would take the allotment of output allowed them by the St. Louis Coal Exchange. This demand they acceded to. Then the Coal Exchange managers refused to allow them any output whatever. At this juncture complaint was made to the Governor of this State to know what rights they had in the premises, and how to obtain them. At his suggestion, the Secretary of this Board visited Belleville and St. Louis, to get additional facts in the case; but before his arrival the St. Louis and Southeastern Railway Company sent a gang of men, between the hours of one and four o'clock in the morning, to the mine, and had taken up the switch leading to the mine, loaded it on cars and taken it away, thus crippling the men more than ever, who had exhausted all their resources in putting the mine in working order. Interviews with the general freight agent of the company and the secretary of the St. Louis Coal Exchange, developed the fact that the whole opposition came from the managers of the latter institution, and that this particular transportation company was seconding their efforts. Finally, the arguments of the railway company's freight manager were met as to the bad effects of allowing these men to earn a living, and he promised to see the general superintendent of the company the following week, and use his efforts to have the switch replaced and the men permitted to market their coal; but a pledge was exacted that the new mining company must abide by the allotment of the Coal Exchange as to the number of cars to be permitted to be shipped.

On the occasion of a visit to the company's office in St. Louis, during the second week following the first interview, to ascertain the company's decision, the Secretary of this Bureau was informed that, when the company was compelled by law to replace the switch and furnish cars to transport the product of this mine to market, its officers would do so, and not before; that the company had all the business it could do, and did not want to furnish cars to give work to men who had been under suspicion of being concerned in a strike.

The reference of this matter to the Attorney-General resulted in a decision that the only redress for these men was to proceed against the company in a civil suit at law, which they were financially unable to do; and, the little local trade at Belleville which the mine could secure not being sufficient to employ more than one or two men in the mine, the work had to be abandoned, a portion of the men being at the time of the abandonment in absolute poverty and in debt to generous creditors and friends for the necessaries of life for their families for six months.

The inquiry into the condition of affairs in this district which this and other incidents brought out, developed a state of feeling between the greater portion of the miners of the district on one side, and the mine operators on the other, which is a sad commentary on the management of their interests by both employers and employes, and demonstrated the necessity of some change in the system before lasting peace and prosperity can continue. Your commissioners

realize the wrongs which have been done by the men at different times, but, from the nature of things, are of the opinion that the burden is about equally divided.

THE SOCIAL CONDITION OF MINERS.

Perhaps, no one body of our laborers, taken as a whole, have made as little progress from their condition of mere wageworkers as the miners of the State, and it is a question which concerns the whole State, as well as the employers of these men and the people who live in their immediate communities, whether this condition may not be much improved in the near future. The majority of our mining population is of foreign birth or parentage, and, as a rule, the sons of miners follow the employment of their fathers. The actual facilities which the great majority of our mining communities offer are not of the best grade, owing to the low state of general intelligence of the mass, and a lack of knowledge of how to develop and sustain schools which are of the better class, on the part of the parents themselves, and the disinclination on the part of property owners to pay a higher rate of taxes than is absolutely necessary to go through the form of complying with the school law. There is a general desire on the part of a larger portion to give their children a better education than they possessed, and a corresponding effort on the part of that portion to deprive themselves of many body comforts, that their children's minds may be disciplined, trained and educated for higher spheres of life; but the conditions under which they have been born and bred, the manner in which they earn their existence, the habits and lack of economic training to which they have all their lives been accustomed, dwarfs and cripples their efforts to accomplish any very rapid progress upward to other spheres of life and action. These facts are worthy of the intelligent, considerate attention of all who have any interest in the progressive development of our State, and, wherever it can be done, legislation should be shaped so as to remedy these evils. A rigid enforcement of that provision of our mining law which prevents the employment of children in mines, together with a compulsory education law, would have a most beneficent effect, although it would take time to realize its influence and effects. Added to these, the cooperation of employers in the matter of the establishment of libraries, cooperative enterprises, the doing away with drunkenness and the abuse of liquor, and the generation of a more healthful spirit of "live and let live" on both sides, would soon produce a marked change in the lives and homes of this growing body of our people. The coal-mining industry is rapidly becoming a very important one in the State; it has developed from a product of about eight hundred thousand tons in 1860, to over six million tons in 1880, and its increase will be nearly double in the next ten years. It behooves us, then, to study this question with seriousness, and build our industrial foundations so deep and strong that we shall see no repetition of the scenes of 1877 in our mining communities. "An ounce of prevention is worth a pound of cure" in industrial as well as in physical disease.

THE WAGES OF MINERS.

This is a question which is one of the most mooted of any which has come before us. During the fall and winter seasons a good workman can earn, in the majority of mines in the State, from \$50 to \$90 per month. The average earnings, however, will hardly exceed \$400 the year round; and, taken one year with another, will not average that amount for the past ten years. The prices paid per ton for mining vary with different localities from 68 cents to \$1 per ton. The output during the summer months is small, and, excepting in manufacturing districts, or where the mine owners have contracts for supplying railroads with coal, the product falls off on an average about three-fifths. There is a general disinclination on the part of the operators to furnish information on these questions, and, in the absence of any authority to compel the return of information, reliable statistics cannot be furnished, but what have been prepared are the result of careful and impartial study, and a desire to treat the question as it deserves.

COÖPERATIVE AND LOAN ASSOCIATIONS.

AMONG THE FARMERS.

There have been formed in this State, up to this time, very few purely coöperative associations, either of a distributive or productive character. The movement of twelve years since among the farmers of the State to protect themselves against the railways, resulted in the formation of many joint stock companies, whose aim was to secure the benefits of coöperation in the purchase of supplies and machinery. There was, however, so much more of the joint stock element in them than the spirit of coöperation, that they soon fell into decay, the principal cause of which was lack of knowledge of business management. There are not in existence at the present time to exceed a dozen successful so-called "granger" stores or establishments, the farmers, as a rule, preferring to follow the businesses they are best fitted by education and experience to perform.

IN LABOR CENTRES.

The labor agitation of the past four or five years has attracted considerable attention among the residents of manufacturing centres to the different forms of cooperation in use in other countries, and to the benefits to be derived. As a result, a few have been started in Chicago, but the majority have failed, the causes being attributable to dissension among the members, and bad business management. One or two have succeeded fairly. The best instance of success is that of the Cooperative Coal Company, 91 Desplaines street, Chicago, which, for the fiscal year ending April 30, 1880, paid its members 12½ per cent. on their stock, and a dividend of 63 cents per ton on all the coal sold, the aggregate of which was for the year about 1,330. The manager's financial exhibit is as follows:

Total number of tons sold	1,3303
Bringing	\$6,846 9 2
Costing	5,037 76
Gross profit	
Gross expenses	
Net profit	
Number of stockholders	
Dividends upon coal, per ton	\$0.63
Dividends upon capital, per cent	$12\frac{1}{2}$

There are at the present time two or three societies in process of organization which bid fair to insure success. They are organized on the plan so successful in Great Britain, a statement of which is given at length in a previous chapter. If the workingmen of our State would take the time and exercise the patience necessary to establish and carry on coöperative stores, they could very soon do away with so-called "truck-stores." There is at the capital of this State a store operated by a rolling-mill company which probably does a business of \$20,000 per month, the profits of which might as well be enjoyed by the operatives themselves. The same is true of other cities; and, while there has been much ado made by many labor agitators against the "evils" of the employers enjoying a double profit, the most practical way to do away with them has been neglected.

LOAN AND HOMESTEAD ASSOCIATIONS.

There are in this State a score of associations on the cooperative principle, whose object is to enable members to secure homes, through their own savings, at the best possible advantage. All have been successful in their object, and the number is yearly increasing, although they have been obliged to lower their rate of interest, by abandoning the premium sales for loans, which the courts have held to be usury. As a consequence of this decision, one or two have wound up their business, but these were those whose investors were largely moneyed men, who became members simply for the purpose of getting high rates of interest which the associations were enabled to pay by reason of their premium sales, and the weekly or monthly payment of interest and share dues. The most successful of these associations which have come under our notice has been the Workingmen's Loan Association of Springfield, which, under a system of share-payments of 25 cents per week, and 15 cents per week on each \$100 loan (or 7 and eight-tenths per cent. per annum), without any premium, perfected its shares of \$100 each in five and onehalf years. The loans are made fortnightly, and each member is obliged—in case of there being any surplus funds in the treasury to take a loan to the amount of his stock, in case the society shall so decide. This provision is made in order that its funds may always be loaned, but there have been but few occasions when this rule had to be enjoined. Thus it will be seen that, at the rate of payment of 25 cents per month, the share-owner's aggregate payment of \$71.50 had increased to \$100. Other societies use fortnightly and monthly systems of payment for shares, as their originators decide. The long-time loans are secured by trust deeds, and the short-time ones must be good paper.

"TRUCK STORES"---THEIR PRESENT STATUS.

One of the alleged evils which was the subject of much agitation between the years 1875 and 1879, was the system of supplying operatives or employes with goods from stores owned by employers of labor, in different portions of the State. The principal complaint came from the coal-mining sections of the State, and there is where the evils of the system were the greatest, employes in many instances being compelled, on peril of loss of employment, to trade at their employers' stores and purchase goods at a much higher price than those asked by other dealers, and were oftentimes compelled by their necessities to take inferior substitutes at a price which savored strongly of outrage. These instances were not unusual. The agitation became so great that the Thirty-first General Assembly passed an act looking to the suppression of the evil; but the bill was manifestly unconstitutional, and would have resulted in an aggravation of the evil, rather than as a suppression of it. The bill was vetoed by the Governor, since when the question has dropped out of sight. The better condition of labor in the State has undoubtedly been one of the controlling causes of the decline of complaint, and there is certainly an improved condition in respect to the management of the establishments, due in a great measure to the agitation of the question from 1877 to 1879.

TRADES SOCIETIES AND WAGES.

TRADES UNIONS.

The growth of the manufacturing industries in Illinois has been followed by societies of the workers in the different branches, whose object is to control and regulate the prices of labor, and other questions of welfare to each craft, to care for their sick, bury their dead, and advance in every way possible the interests of their members. None of the organizations have, however, reached any where near the perfection of discipline or achieved the success at which trades unions have arrived at in Great Britain. Few have any reserve funds, and their affairs are not so well managed as in England.

There are probably in this State no less than forty branches of industry, which are represented by trades unions. Among which are the brick layers, brick laborers, box-makers, butchers, carpenters and joiners, cigar makers, cigar packers, coopers, clothing cutters, furniture workers, hackmen, horse-collar makers, iron moulders, machine moulders, shoe makers, machinists and blacksmiths, lathers, lithographers, plummers and gas-fitters, pressmen, seamen, silver gilders, stair builders, tailors, tinners and sheet-iron workers, printers, upholsterers, wood carvers, coal miners, locomotive engineers, locomotive firemen, and freight handlers. There are, besides, other societies not peculiar to any one branch of industry, with different avowed objects; such as the eight-hour league, knights of labor, trade and labor council, and the working women.

The returns of blanks sent out to these societies have been too meagre to warrant any trustworthy calculations as to numbers, financial standing or progress; but, taken as a whole, there seems to have been little progress made in the past five years. A large proportion have sick benefits, and a few death benefit provisions in their by-laws, but as a rule the death benefit system of aid is confined to societies organized for that purpose. All these societies resort to strikes to enforce their demands, and their experience in this particular is about the same in Illinois as elsewhere, in that on a rising market and good demand for labor they are successful, while on a falling labor market they are able to make but a temporary headway. At present the average of wages paid is having

an upward tendency, varying with the industry, and the prospects are that the coming year will see the highest rate of wages paid since 1873. The following are the

RATES OF WAGES

paid in the different industries, so far as can be determined by the data in the possession of this Bureau:

Amounts Earned Per Day.

Brick layers	2.50	to	3.50
Blacksmiths and helpers			4.00
Box makers			2.50
Butchers		to	3.00
Carpenters		to	3.50
Cigar makers	1.20		2.50
Cigar packers	1.78	to	2.25
Coopers	1.50	ю	2.50
Clothing cutters	2.50	ю	6.00
Furniture workers and joiners.	1.50	ю	4.50
Gas-fitters. Saddlers and collar makers.	2.00	w	5.00
Badders and collar makers	1.70		3.00 4.00
Iron moulders		to	5.00
Machinists		w	3.50
Lithographers	9 50	to	9.00
Plumbers			5 00
Printers		to	5.00
Pressmen			6.00
Shoe makers			4 60
Silver gilders			6.00
			4.00
Tailors. Tinners and sheet iron workers.	1.75	to	4.00
Upholsterers	2.50	to	6.00
Watch makers and jewelers	2.00	to	6.00
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Note-The tables of wages will be found on pages 77 to 156 of this report.

THE LEGAL STATUS OF TRADES UNIONS.

Under our system of laws, it is virtually a crime to belong to a trades union, in that any number of persons combining together to affect the price of wages come under the statute relating to conspiracy. The law in question was first enacted in 1861, and was an outcome of the violence and intimidation resulting from the coal mining strikes of that period. The law is virtually a dead-letter; and, although there have been arrests made in the last four years under it by complaints before justices of the peace, yet no grand jury has acted under it since 1865. In comparison with our treatment of this question, we present an abstract of

THE BRITISH TRADES-UNIONS LAW.

In 1871 was passed by the British Parliament the most important of modern laws affecting trades-unions, in which the term "trade-union" is described as meaning "such combination, whether temporary or permanent, for regulating the relations between workmen and masters, or between workmen and workmen, or between masters and masters, or for imposing restrictive conditions on the conduct of any trade or business as would, if this act had not passed, have been deemed to have been an unfawful combination by reason of some one or more of its purposes being in restraint of trade: *Provided*, that this act shall not affect (1) any agreement between part-

ners as to their own business; (2) any agreement between an employer and those employed by him as to a business, or of instruc-

tion in any profession, trade or handicraft."

This law grants to trades-unions that protection to their property which the common law practically denied them. Inasmuch, however, as trades-unions can only sue or be sued with respect to their right, title or interest in property, they escape legal proceedings which might be instituted against them on account of imaginary grievances occasioned by their action.

This law provides that:

"The purposes of any trade-union shall not, by reason merely that they are in restraint of trade, be deemed to be unlawful, so as to render any member of such trade-union liable to criminal prosecution or otherwise.

"The purposes of any trade-union shall not, by reason merely that they are in restraint of trade, be unlawful, so as to render void or voidable any agreement or trust.

"Nothing in this act shall enable any court to entertain any legal proceedings instituted with the object of directly entering or recovering damages for the breach of any of the following agreements, namely:

"1. Any agreement between members of a trade-union, as such, concerning the conditions on which any members for the time being of such trade-union shall or shall not sell their goods, transact business, employ or be employed.

"2. Any agreement for the payment by any person of any sub-

scription or penalty to a trade-union.

"3. Any agreement for the application of the funds of a tradeunion (a) to provide benefits to members, or (b) to furnish contributions to any employe or workman not a member of such trade-union in consideration of such employe or workman acting in conformity with the rules or regulations of such trade-union, or (c) to discharge any fine imposed upon any person by sentence of a court of justice; or,

"4. Any agreement made between one trade-union and another;

or,

"5. Any bond to secure the performance of the above-mentioned agreements; but nothing in this section shall be deemed to constitute any of the above-mentioned agreements unlawful."

It is then provided that seven or more members of a trade-union can register it, and that any union so registered can hold lands not exceeding one acre, in the name of trustees, and perform any act necessary in connection with such lands. The union is also permitted to hold personal estate in the same manner. The trustees may be sued, or may defend in any action in law or equity touching the property, right or claim to property of any trade-union. Other sections provide in what manner trustees shall be held accountable for their actions, and what punishment shall be meted out to such as may embezzle moneys or refuse to surrender property upon the expiration of their term of office.

General rules are established regarding the manner in which reg-

istry is to be obtained.

Annual reports are required to be submitted to a Registrar, showing assets and liabilities at the date of the report, and receipts and expenditures for the year then past, and indicating separately the expenditure in respect to the several objects of the trade-union. The manner in which legal proceedings can be had is then described at length.

MUNICIPAL REGULATION OF FACTORIES.

Since 1879, Chicago has undertaken to regulate the condition of her factories, under rules and ordinances adopted to aid her Health Commissioner, more as a sanitary regulation than anything else. The inspection has done a vast amount of good in bettering the condition under which the employes in factories labor; and a summary of the work done by the Health Commissioner's inspectors may be found on pages 157 to 161. The following is the text of the ordinance under which the inspection is made:

AN ORDINANCE.

For the Regulation and Inspection of Factories, Workshops, Stores, Warehouses, Wards, and all Other Places of Employment.

SECTION 1. Be it ordained by the City Council of the City of Chicago, That whoever employs, or causes te be employed, any person or persons. In any factory, workshop, store, warehouse, yard, grain elevator, or other place of service or employment where hired service, or any manual labor is performed, shall not be permitted to put at work more persons in any one room or place than the laws of health will warrant; all such rooms or places of employment shall have a ventilator or ventilators, or other appliances sufficiently large to carry off all foul or impure air, and to reduce the air of such room or place of employment to the standard of fresh air, and there shall be allowed to each person in a work room at least five hundred (500) cubic feet air space. Such places shall also have sufficient doors and stairways and fire escapes for the escape of the employes in case of fire or any other accidents. All such places of two or more stories high, shall have, for every twenty feet of frontage, one front stairway and one rear stairway, not less than fifty feet apart.

§ 2. Every vat, pan, or other structure with molten metal or hot liquid, shall be surrounded with proper safeguards for preventing accidents or injury to those employed at or near them. All belting, shafting, gearing, hoists, fly-wheels, elevators and drums of manufacturing establishments, so located as to be dangerous to employes when engaged in their ordinary duties, shall be securely guarded or fenced so as to be safe to every person employed in the place of employment where such things are used.

§ 3. All such places of employment or service shall be kept in a cleanly condition, free from the effluvia of a sewer, drain, privy, stable, or other nuisance, also from gases, vapors, dust, or other impurities generated by manufacturing processes or otherwise, and injurious to health. Sufficient and separate privies and urinals shall be provided for male and female employes, and such privies shall be ventilated.

§ 4. The walls and roofs, doors and windows shall be kept in good repair, so as to keep out rain, wind and snow.

§ 5. The Commissioner of Health shall visit or cause to be visited by an officer, all such places of employment or service within the city, at least once a month, to see that the provisions of this ordinance are complied with, and shall have such arrangements made as may be deemed necessary for the safety and health of the employes, pursuant to the terms of this ordinance, and such laws as may be in force concerning health and sanitary

measures.

5.6. The Commissioner of Health shall, annually, during the first quarter of each and every fiscal year, place full and detailed statistical reports of the work of the inspectors before the City Council. The reports shall specify the following:

1. Number of males and females of all ages employed; also number of boys and girls under 15 years of age employed.

2. The number of violations of this ordinance and the number of abatements, with detailed accounts of improvements affected.

3. General and special sanitary condition of all people in labor or service in factories, workshops stores warehouses elevators, vards and domestic workrooms.

workshops, stores, warehouses, elevators, yards and domestic workrooms.

4. Number and kind of dangerous and unhealthy employments, and diseases of the several trades and occupations.

Such reports shall be printed as public documents for the information of the people.

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57. There shall be affixed at the entrance of each place of employment, and in such other place as the inspector for the time being may direct, a copy of this ordinance, in large type, on card paper. Any corporation, manufacturer, employer, agent, or other person refusing admission to his or her factory, workshop, store or other place of employment or service, to the Commissioner of Health or other officer, or refusing to comply with the provisions of this ordinance, shall be fined not less than fifty dollars, and not more than two hundred dollars, for each offense. All fines to be recovered in the name of the city, and when collected to be paid into the city treasury.

§ 8. The ordinance for the regulation and inspection of factories and workshops, passed October 27, 1879, and all other ordinances or parts of ordinances in conflict herewith, are hereby repealed.

WOMEN'S WORK.

There is a gratifying symptom to the lover of progress, to the position accorded the women of the State, in the matter of the employment of women in such industries as are suited to them, and at which they can labor without disadvantage. As compositors, bookkeepers, employes in watch factories, and in many of the arts, their success is unquestioned, and the fields of labor which are opening honorable employment to them is one of the brightest spots on our civilization. There are, however, many dark spots, and the wrongs which prompted "The Song of the Shirt" still exist in our largest city. But we cannot, with our present limited authority, investigate this subject as it ought to be. Some classes of wearing apparel and furnishing goods are made at prices which will astound the better paid of other occupations. Thirty-five to ninety cents a dozen for making shirts, certainly calls for a change in the policy of merchants who are passing the lives of women over their counters in every package of this illy-paid work they sell; and we have good reason to state that, were the real facts of the prices paid by employers in shirt and clothing factories to be known, there would such a change of public sentiment be aroused as would compel a more remunerative scale of wages, even though a quarter of a dollar more were paid for making such an article as a shirt. But until authority is granted sufficient to compel the return of information, it will be impossible to elicit reliable figures. The wages of lady clerks in stores is very small, three to eight dollars per week for girls and women being the average. In many of the industries, however, women receive about the same wages as men.

RECOMMENDATIONS.

MINE INSPECTION.

In conclusion, your board would recommend a change in that part of the mine inspection law of the State which provides for the appointment of the inspectors by the county boards of supervisors, so that the appointment shall rest with the State. The State should be divided into districts, allotting such territory to each district as shall fill the entire time of the inspector who may be assigned to it. To do this work thoroughly and carry out the present law, will require the districting of not less than twelve mining districts. The salary of each inspector ought not to be less than \$1,000 per year, in order that men of experience and capacity will retain these offices. Their traveling and other expenses ought not to exceed \$250 per year, each, additional; and we are satisfied that some such method as this will have to be adopted before the mine inspection law of this State will be effective.

ADDITIONAL AUTHORITY ASKED FOR.

We further recommend such change in the law creating this Bureau as shall enlarge its powers and give it authority to require the furnishing of such data as may be necessary to the compilation of statistics in all the industries. Such change is necessary to render the statistics reliable, and the passage of such an amendment to the law under which your commissioners are acting, need work no hardship or inconvenience upon any class of citizens, and would place the work of the Bureau upon a footing which is necessary to its permanent success. Massachusetts, Pennsylvania, Ohio, Missouri and other States having similar departments have conferred such authority upon the officers engaged in the work of compiling statistics, and there has been little complaint of the workings of such laws.

The expense of properly investigating the different branches of industry in the State during the coming two years will require an appropriation of about \$8,000 per year. The work will have to be done by special agents, and will require the entire time of at least four persons, in addition to the present expenses of the Bureau. If it is intended to continue the work of the Bureau, the State should appropriate sufficient funds to carry on the work successfully. Massachusetts has expended not less than \$8,000 per year, during the past twelve years, in investigating the labor question, and the high rank of her reports on this subject is an example of the results of wise economy that Illinois can well afford to follow.

CHILD-LABOR AND EDUCATION.

We further recommend the enactment of a law which shall prohibit the employment of children under ten years of age, in the manufacturing institutions and stores of this State, and which shall provide for at least three months schooling per year for all children under the age of fourteen years. The people of this State cannot afford to allow any increase of ignorance, through the failure of parents or guardians to provide the younger generation with at least the elements of that education which is necessary for the welfare of the State, as well as being a requisite to the poorer people in providing for themselves and their families a way by which they may know how to live better.

TREATMENT OF THE LABOR QUESTION.

In whatever other phases the labor question may come before you, and in the treatment which should be accorded them, we cannot do better than repeat the recommendations laid down by ex-Governor Washburne, in his annual message of 1872 to the Massachusetts General Assembly, in which he said:

"I commend to your candid and cordial consideration the varied interests of those who are denominated the laboring portion of our citizens. The question of practical concern is not so much whether the condition of this class is better or worse here than in other sections of the country, as whether that condition is satisfactory, whether it is what it might be made by honest and resolute endeavor, what it should be made by those who have the well-being of the commonwealth deeply at heart. To this question I am sure no one will venture an affirmative reply. Neither is it of paramount importance to determine whether the situation of this large body of persons is better or worse than it was formerly. Our view should be forward, and not backward.

"Many seem to hold the opinion that if the workingmen and workingwomen, as they are commonly designated, receive constant employment, and are adequately remunerated; if they gain the needful bread and meat in exchange for their labor; if they have comfortable homes and enough for the decent support of themselves and their families, it is their duty to be therewith content. But this is a narrow judgment of the matter in issue. They ought not only to perform their daily tasks faithfully, but be so circumstanced that they will perform them cheerfully. In so far as lies within our power, we ought to remove every just cause of complaint. Every human being should have higher and nobler aspirations than merely to provide food and clothing for the body. This should never content him. The head of a family ought to have time for study, thought, reading, recreation, innocent pleasure; he properly desires to give his children a better education than he had, and furnish them advantages superior to those he himself enjoyed.

"The fact that there is unrest and dissatisfaction when man is confined to unremitting toil, is one of the brightest and most healthy omens of the times. It is an indication that his better nature is struggling for emacipation; it is a hopeful sign of finer

and nobler manhood in the future. Such efforts for improvement should never be discouraged but always encouraged.

"That there ever have been and ever will be grades of society, is true enough; the statesman should seek to diminish the distance between the extremes by elevating the lower. It has been said that as soon as the materials for the construction of society were brought together they proceeded forthwith to arrange themselves in layers,—the stronger, more nimble and more cunning of the living constituents climbing to the higher places, and forcing upon those below the office of upholding them in their elevation. As the pyramid was originally built, so it remains in its general design. Within the heaving mass of multitudinous life, individual atoms are constantly changing places, but without destroying, however much disturbing, the primative distribution into layers. These are still disposed, one above the other, in a gradually diminishing series. It is so natural to feel that what always has been must always be, that we are too apt to content ourselves with things as we find them. But this is the dictate neither of wisdom nor of prudence. Standing still is not the province of society; it must either advance or retrograde.

"Especially, under such a government as ours, is change almost normal condition and an inherent necessity. The pyramid cona normal condition and an inherent necessity. tinues to uplift itself as an entirety, but atoms in the bottom layer of to-day may be in the top layer of to-morrow. Hence one reason why it becomes us to fairly and honestly examine the condition of the laboring classes, upon whom the whole superstructure of the social organism rests. Because they are a part of ourselves, it devolves upon us to relieve them, as far as possible, from the grievances to which they are subjected. Their existence is not separate from the existence of the State; what tends to their welfare is calculated to promote the general welfare; in the last analysis their interest is identical with the interest of the upper classes: the least addition to their comfort is a gain to the whole com-munity, and if their case is considered in the right spirit there is no good cause for antagonistic feeling. The question raised by them, and in their behalf, can never be adjusted by the two extremes-those anxious to secure the greatest possible amount of pay for the least possible amount of work, and those anxious to obtain the greatest possible amount of work for the least possible amount of pay. Nor will relief come with the determination how many hours shall constitute a legal day's work. For no period can be fixed which should be applicable alike to all. The ingenious, skilled laborer, who uses mind as well as muscle, cannot apply himself the same number of hours to his task as he who merely handles the hoe or shovel, holds the plow or drives the oxen, uses the trowel or weaves at the loom. The great desideratum is to determine what would be a fair division of profits between the employer and the employe. Settle the question as to compensation per hour, and there will be no serious difficulty about the number

"Let us not expect to adjust the issue confronting us by lecturing the laboring classes. We must be willing to meet them on their own ground, and discuss the matter at stake from their point of view. We must not only believe in the necessity, but have faith in practicability of cultivating the soil. Plough it thoroughly, enrich it as may be necessary, prepare it to the utmost for an abundant crop. However barren it may appear to superficial observation, it

is capable of almost indefinite improvement.

"I commend to your earnest attention the results which may be brought out by the Bureau of Labor Statistics. I doubt not you will welcome any and every fact tending to throw light upon the solution of this great labor problem. A subject so vital to the commonwealth as the question whether the daily life of a majority of its citizens can be enlarged and improved must not be ignored, and should receive no secondary consideration at your hands."

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